

WALMSTROM AFB MONTANA REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBSERVAT..(U) AIR FORCE ENVIRONMENTAL
TECHNICAL APPLICATIONS CENTER SCOTT A.. FEB 84

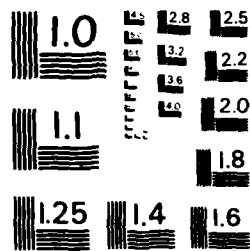
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MICROCOPY RESOLUTION TEST CHART
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REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBSERVATIONS

MALMSTROM AFB MT MSC #727755
N 47 30 E 111 11 ELEV 3526 FT GFA

PARTS A-F HOURS SUMMARIZED: 0000Z - 2300Z

PERIOD OF RECORD:

HOURLY OBSERVATIONS: NOV 73 - NOV 83
SUMMARY OF DAY DATA: DEC 42 - SEP 45, DEC 45 - NOV 83

TIME CONVERSION GMT TO LST: -7

15 FEB 1984

13 FEB 1984

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM															
1. REPORT NUMBER USAFETAC/DS-84/007	2. GOVT ACCESSION NO. AD-A142 657	3. RECIPIENT'S CATALOG NUMBER															
4. TITLE (and Subtitle) Revised Uniform Summary of Surface Weather Observations (RUSSWO)- Malmstrom AFB, Montana		5. TYPE OF REPORT & PERIOD COVERED Final rept															
7. AUTHOR(s)		6. PERFORMING ORG. REPORT NUMBER															
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11. CONTROLLING OFFICE NAME AND ADDRESS USAFETAC/CBD Air Weather Service (MAC) Scott AFB, IL 62225		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS															
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18. SUPPLEMENTARY NOTES SUPERSEDES REPT NO. USAFETAC/DS-78/004, AD-A061828, Jun 78.																	
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) <table border="0"> <tr> <td>*RUSSWO</td> <td>Daily temperatures</td> <td>Atmospheric pressure</td> </tr> <tr> <td>Snowfall</td> <td>Extreme snow depth</td> <td>Extreme surface winds</td> </tr> <tr> <td>Climatology</td> <td>Sea-level pressure</td> <td>Psychrometric summary</td> </tr> <tr> <td>Surface Winds</td> <td>Extreme temperature</td> <td>Ceiling versus visibility</td> </tr> <tr> <td>Relative Humidity</td> <td>*Climatological data</td> <td>(over)</td> </tr> </table>			*RUSSWO	Daily temperatures	Atmospheric pressure	Snowfall	Extreme snow depth	Extreme surface winds	Climatology	Sea-level pressure	Psychrometric summary	Surface Winds	Extreme temperature	Ceiling versus visibility	Relative Humidity	*Climatological data	(over)
*RUSSWO	Daily temperatures	Atmospheric pressure															
Snowfall	Extreme snow depth	Extreme surface winds															
Climatology	Sea-level pressure	Psychrometric summary															
Surface Winds	Extreme temperature	Ceiling versus visibility															
Relative Humidity	*Climatological data	(over)															
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) <p>This report is a six-part statistical summary of surface weather observations for Malmstrom AFB, Montana.</p> <p>It contains the following parts: (A) Weather Conditions; Atmospheric Phenomena; (B) Precipitation, Snowfall and Snow Depth (Daily amounts and extreme values); (C) Surface winds; (D) Ceiling versus Visibility; Sky Cover; (E) Psychrometric (over)</p>																	

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19. Percentage frequency of distribution tables
Dry-bulb temperature versus wet-bulb temperature
Cumulative percentage frequency of distribution tables
*Montana *Malmstrom AFB *USMT727755
*Malmstrom Air Force Base *Malmstrom *Gore Field
*Great Falls

20. Summaries (daily maximum and minimum temperatures, extreme maximum and minimum temperatures, psychrometric summary of wet-bulb temperature depression versus dry-bulb temperature, means and standard deviations of dry-bulb, wet-bulb and dew point temperatures and relative humidity); and (F) Pressure Summary (means, standard, deviations, and observation counts of station pressure and sea-level pressure). Data in this report are presented in tabular form, in most cases in percentage frequency of occurrence or cumulative percentage frequency of occurring tables.

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REVIEW AND APPROVAL STATEMENT

This report, ETAC/DS-34/007 , is approved for public release. There is no objection to unlimited distribution of this report to the public at large, or by Defense Technical Information Center (DTIC) to the National Technical Information Service (NTIS).

This technical report has been reviewed and is approved for publication.

Wayne E. McCollom

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USAFETAC/TST

FOR THE COMMANDER

Walter S. Burgmann

WALTER S. BURGMANN
Director, Air Weather Service
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4 APR 1984

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The number that identifies the station in this summary is an AWS Master Station Catalog number. This number is comprised of the WMO number with the addition of a suffix zero; or, in cases where there is no designated WMO number, a 5-digit number created in agreement with WMO rules, plus a sixth qualifying digit. These numbers (also referred to as DATSAV or USAFETAC numbers) uniquely identify each of more than 15,000 reporting stations around the world. This is the provenance of the number (e.g., MSC 999999) which will appear on future OL-A standard products.

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

HOURLY OBSERVATIONS

Hourly observations are defined as those record or record-special observations recorded at scheduled hourly intervals.

DAILY OBSERVATIONS

Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations. (Selected from record-special, local, summary of the day, remarks, etc.)

DESCRIPTION OF SUMMARIES

Preceding each section is a brief description of the data comprising each part of the Revised Uniform Summary of Surface Weather Observations and the manner of presentation. Tabulations are prepared from hourly and daily observations recorded by stations operated by the U. S. Services and some foreign stations using similar reporting practices.

Unless otherwise noted the following summaries are included for this station:

PART A WEATHER CONDITIONS

ATMOSPHERIC PHENOMENA

PART B PRECIPITATION

SNOWFALL

SNOW DEPTH

PART C SURFACE WINDS

PART D CEILING VERSUS VISIBILITY

SKYCOVER

PART E DAILY MAX, MIN, & MEAN TEMP

EXTREME MAX & MIN TEMP

PSYCHROMETRIC DRY VS WET BULB

MEAN & STD DEV (DRY BULB, WET BULB, & DEW POINT)

RELATIVE HUMIDITY

PART F STATION PRESSURE

SEA LEVEL PRESSURE

STANDARD 3-HOUR GROUPS

All summaries requiring diurnal variations are summarized in eight 3-hour periods corresponding to the following sets of hourly observations: 0000-0300, 0300-0600, 0600-0900, 0900-1200, 1200-1500, 1500-1800, 1800-2100, 2100-2400 hours local standard time.

MISSING HOUR GROUPS

Summary sheets are omitted when stations maintaining limited observing schedules did not report certain three-hour periods for any particular month during the available period of record. Such missing sheets are listed below, and are applicable to all summaries prepared from hourly observations.

JANUARY _____

APRIL _____

JULY _____

OCTOBER _____

FEBRUARY _____

MAY _____

AUGUST _____

NOVEMBER _____

MARCH _____

JUNE _____

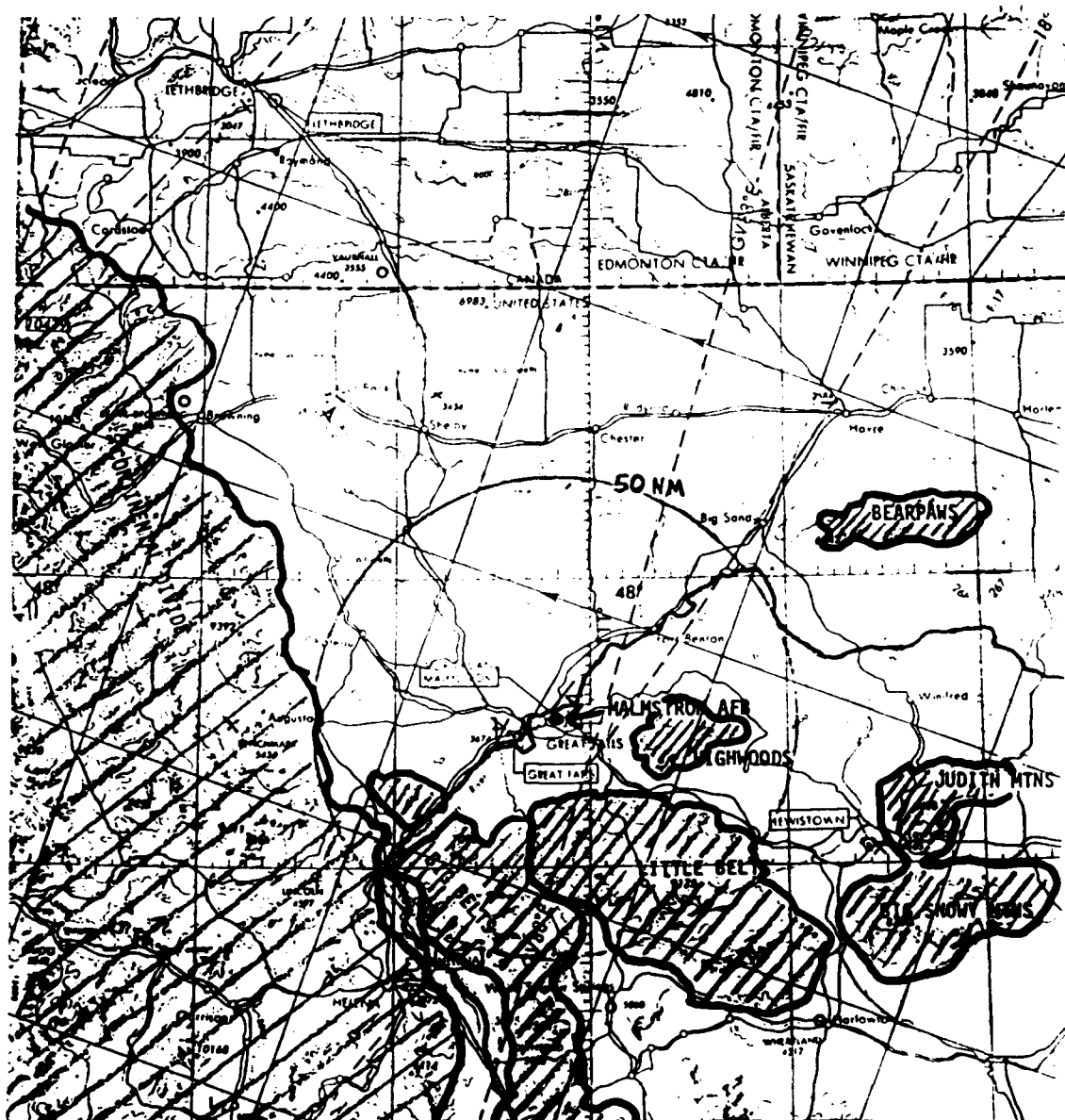
SEPTEMBER _____

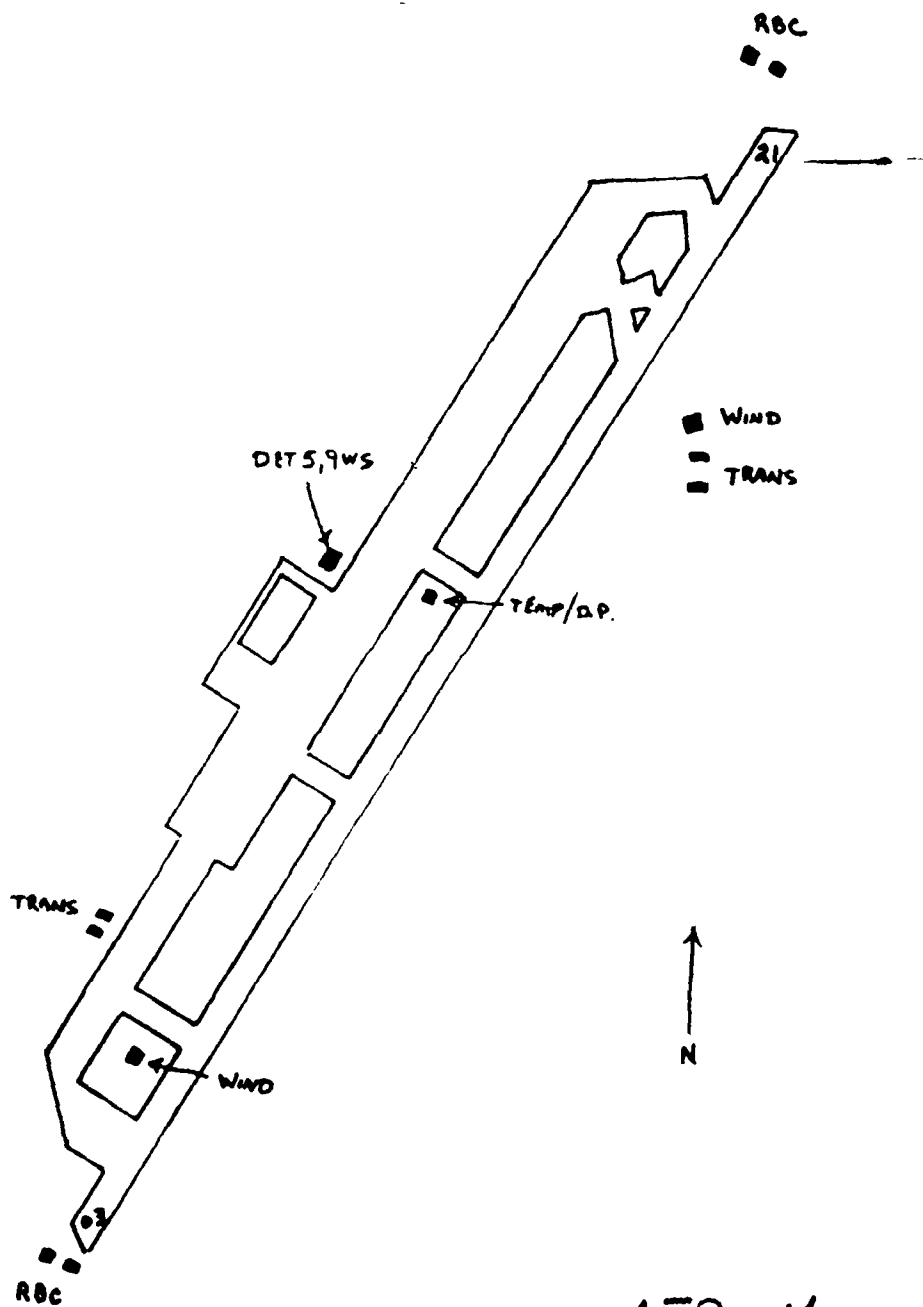
DECEMBER _____

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
8	Oct 82	1. Same	AN/GM	RO362	13 Ft	
		2. Same	-20			
9	Dec 83	1. Same	Same	Same	13 Ft	
		2. Same				

STATION NO ON SUMMARY		STATION NAME		LATITUDE		LONGITUDE		FIELD ELEV (FT)		CALL SIGN		WMO NUMBER	
727755		Malmstrom AFB MT/Great Falls		N 47 30		W 111 11		3526		GFA			
STATION LOCATION AND INSTRUMENTATION HISTORY													
NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY				
			FROM	TO			FIELD (FT)	HT. BARD.					
1	Gore Field, Great Falls MT	AAF	Dec 42	Jan 44	N 47 30	W 111 10	3456	3687	24				
2	Same	AAF	Feb 44	Nov 44	Same	Same	3438	3430	24				
3	Same	AAF	Dec 44	Nov 45	N 47 31	Same	3442	3447	24				
4	Great Falls AAB MT	AAF	Dec 45	Feb 46	Same	W 111 11	3456	3460	24				
5	Same	AAF	Mar 46	May 49	Same	Same	Same	3447	24				
6	Great Falls AFB MT	AFB	Jun 49	Sep 49	Same	Same	Same	3444	24				
7	Same	AFB	Oct 49	May 53	Same	Same	Same	3447	24				
8	Same	AFB	Jun 53	Jan 54	N 47 31	W 111 10	3524	Same	24				
9	Same	AFB	Feb 54	Feb 57	Same	Same	Same	3465	24				
10	Malmstrom AFB MT	AFB	Mar 57	Mar 65	Same	Same	Same	Same	24				
11	Same	AFB	Apr 65	Nov 82	Same	W 111 11	3526	Same	24				
12	Same	AFB	Dec 82	Dec 83	N 47 30	Same	3526	3465	24				

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1	Dec 42	Unknown				
2	Jun 53	Atop hangar	AN/GMQ-1	ML-144C	57 Ft	
3	Feb 54	Atop control tower	Same	Same	112 Ft	
4	Mar 55	Same	Same	None	107 Ft	
5	Apr 58	760 Ft from ctr line	GMQ-11	RO-2/GMQ	15 Ft	
6	Apr 68	1. 500 Ft NW of runway, 250 Ft SW of Taxiway S	Same	Same	Same	
		2. 1000 Ft SW end of Rwy 20, 500 Ft SE of ctr line	Same	Same	Same	
7	Nov 77	1. Same	Same	Same	13 Ft	
		2. Same	Same	Same	Same	





MALSTROM AFB MT

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A

PART A

WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from hourly observations, and is presented in two tables as follows:

1. By month and annual, all hours and years combined.
2. By month, all years combined, by standard 3-hour groups.

A percent value of ".0" in these tables indicates less than .05 percent, which is usually only one occurrence. The various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet (ice pellets) - Included are snow, snow pellets, sleet, snow grains, ice crystals, and ice pellets from Jan 68 and later. (Snow pellets also known as soft hail)

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the percentages of the observations with precip.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources).

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Continued on Reverse

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision, below.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

WEATHER CONDITIONS

727755 MALMSTROM AFB MT 74-57 JAN
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS LST	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JAN	00-02		.1		23.1		23.2	4.5		.3		4.8	937
	03-05		.3		22.5		22.6	4.3		.3		4.6	937
	06-08		.1	.1	25.2		25.4	5.8		.9		5.5	937
	09-11		.1	.1	24.0		25.1	8.6	.3	.9		9.8	937
	12-14		.1		22.4		22.5	8.1		1.1	.1	9.3	937
	15-17			.1	19.9		19.9	7.7	.2	1.0	.2	9.6	937
	18-20		.4	.1	19.1		19.5	5.6		.6		5.8	937
	21-23				22.4		22.4	5.1		.3		5.3	937
TOTALS			.1	.1	22.4		22.6	6.2	.1	.7	.0	6.8	7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
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WEATHER CONDITIONS

707755 MALMSTROM AFB MT

74-87

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
FEB	01-02		.4		18.8		18.8	8.6		.4		9.0	846
	03-05		.1	.1	17.5		17.6	8.4	.2	.5		9.1	846
	06-08		.8		17.0		17.6	7.6	.1	1.2		8.5	846
	09-11		.8		18.4		19.3	9.7		1.8		11.2	846
	12-14		1.7		14.4		16.0	8.4	.2	.8		9.2	846
	15-17		1.2	.2	11.6		12.8	6.4	.6	.7		7.7	846
	18-20		1.1		12.5		13.4	7.1				7.1	846
	21-23		.9		17.3		17.7	8.5		.6		9.1	846
TOTALS			.9	.0	15.9		16.7	8.1	.1	.8		8.9	6768

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
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WEATHER CONDITIONS

727755

MALMSTROM AFB MT

74-83

MAP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
MAR	00-02		3.8	.1	14.6		17.3	5.5		.6	.1	5.7	937
	03-05		2.6		16.5		17.7	7.5		1.0	.1	7.8	937
	06-08		1.3	.2	18.4		19.0	9.8		1.9		10.5	937
	09-11		2.3	.2	17.2		19.1	9.5		2.2		10.5	937
	12-14		1.2		15.9	.1	17.1	7.2	.1	1.5	.2	8.1	937
	15-17	.2	1.2		14.6	.1	15.7	6.8	.1	1.7		7.5	937
	18-20		2.6		15.2		17.7	7.7		1.4		8.8	930
	21-23		3.3	.1	14.7		17.3	5.5		1.0		6.2	937
TOTALS		.0	2.3	.1	15.9	.0	17.6	7.4	.0	1.4	.1	8.1	7447

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
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WEATHER CONDITIONS

727755 MALMSTROM AFB MT

74-83

APR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
APR	00-02		4.3	.3	11.0		14.7	6.4		.2		6.7	900
	03-05		3.0	.3	11.9		15.7	7.8		.3		7.9	900
	06-08		3.9	.4	10.1		14.3	10.0	.2	.6		17.6	900
	09-11		4.4		10.6		14.1	7.4		.6		7.7	900
	12-14	.1	5.9		8.7		13.1	4.7		.3		4.7	900
	15-17	.1	7.2		6.3	.1	12.2	2.8		.1		2.8	900
	18-20		5.8		7.0		11.0	2.3				2.3	900
	21-23		5.0		9.0		12.8	4.9				4.9	900
TOTALS		.0	5.1	.1	9.3	.0	13.5	5.8	.0	.3		6.0	7200

GLOBAL CLIMATOLOGY BRANCH
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WEATHER CONDITIONS

707755

MALMSTROM AFB MT

74-83

MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HALE	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
MAY	00-02	.2	12.3		2.6	.1	14.1	3.3	.1		.5	4.0	930
	03-05		13.5		2.7		15.4	4.2			.6	4.8	930
	06-08	.1	13.4		3.0		15.8	5.4		.2	.6	6.0	930
	09-11	.2	11.7		2.9		13.9	3.3			.4	3.8	930
	12-14	.9	12.6		2.7	.2	14.3	2.8			.3	3.1	930
	15-17	1.9	13.7		1.6	.2	14.9	2.6			.4	3.0	930
	18-20	1.5	12.5		1.7		13.3	1.8			.3	2.2	930
	21-23	.9	11.9		1.9		13.0	2.5			.5	3.0	930
TOTALS		.7	12.7		2.3	.1	14.3	3.2	.0	.0	.5	3.7	7440

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WEATHER CONDITIONS

727755

MALMSTROM AFB MT

74-87

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JUN	00-02	1.7	9.1				9.1	.4				.4	899
	03-05	.8	9.1				9.1	.9				.9	900
	06-08	.3	8.8				8.8	2.6	.2			2.8	900
	09-11		6.8				6.8	1.3	.2			1.6	900
	12-14	1.3	7.0				7.0	.1				.1	900
	15-17	3.8	9.3			.2	9.4						900
	18-20	6.6	11.2			.1	11.2	.4				.4	900
	21-23	4.8	9.1				9.1	.3				.3	900
TOTALS		2.4	8.8			.2	8.8	.8	.1			.8	7199

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WEATHER CONDITIONS

727755

HALMSTROM AFB MT

74-83

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JUL	00-02	1.0	3.4				3.4	.1				.1	930
	03-05	.4	5.2				5.2	1.1				1.1	930
	06-08	.2	4.0				4.0	1.5				1.5	930
	09-11	.2	4.4				4.4	.4				.4	930
	12-14	.9	3.2				3.2	.3				.3	930
	15-17	3.3	4.6			.1	4.6	.2				.2	930
	18-20	4.3	5.1				5.1				.1	.1	930
	21-23	3.1	5.5				5.5						930
TOTALS		1.7	4.4			.0	4.4	.5			.0	.5	7440

GLOBAL CLIMATOLOGY BRANCH
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WEATHER CONDITIONS

727755

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74-83

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STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
AUG	00-02	1.5	5.7				5.7	.1				.1	930
	03-05	.2	4.7				4.7	.6				.6	930
	06-08		6.0				6.0	.4	.3			.8	930
	09-11	.1	5.1				5.1	.8	.2			1.0	930
	12-14	.3	5.5				5.5	.8	.2			1.0	930
	15-17	2.4	6.1				6.1	.4				.4	930
	18-20	3.1	7.4				7.4	.5			.2	.8	930
	21-23	1.9	7.5				7.5	.2				.2	930
TOTALS		1.2	6.0				6.0	.5	.1		.0	.6	7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

727755

HALMSTROM AFB MT

74-83

SEP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS LST	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
SEP	00-02	.1	6.1		1.3		7.2	1.8				1.8	900
	03-05	.1	6.9		2.7		9.2	1.9				1.9	900
	06-08		6.9		2.3		8.8	2.0				2.0	900
	09-11		5.3		1.3		6.4	1.9				1.9	900
	12-14	.1	5.2		1.2	.1	6.3	.9				.9	900
	15-17	.3	5.9		1.0		6.7	.9				.9	900
	18-20	.6	6.0		1.2		7.1	.8				.8	900
	21-23	.1	8.4		1.6		9.3	1.2				1.2	900
TOTALS		.2	6.3		1.6	.0	7.6	1.4				1.4	7200

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

727755

MALMSTROM AFB MT

74-83

OCT
MONTH

STATION

STATION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HALE	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
OCT	00-02		4.7		3.5		7.4	3.1				3.1	930
	03-05		4.7		4.6		9.1	4.2				4.2	930
	06-08		4.8		5.9		10.2	4.8				4.8	930
	09-11		5.3		5.1		10.2	4.9				4.9	930
	12-14	.1	4.9		4.2		8.8	3.1				3.1	930
	15-17		5.4		2.4		7.2	2.7				2.7	930
	18-20		4.2		3.4		6.4	2.6				2.6	930
	21-23		4.0		3.5		7.4	2.8				2.8	930
TOTALS		.0	4.6		4.1		8.3	3.5				3.5	7400

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

WEATHER CONDITIONS

707755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEARS

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
NOV	00-02		.8	.1	12.4		13.0	4.2		1.3		5.2	977
	03-05		.4		13.6		13.8	4.9		1.2		6.0	900
	06-08		.4		13.2		14.0	6.2		.8		6.7	950
	09-11		.8		12.7		13.4	6.7	.1	1.0	.1	7.0	900
	12-14		1.0		12.7		13.3	5.9	.3	1.3		6.8	900
	15-17		2.1		11.6		13.1	6.1	.1	2.6		7.6	899
	18-20		1.2		11.7		12.8	5.0		1.2		5.9	897
	21-23		.6	.1	12.7		13.0	4.6		1.2		5.6	897
TOTALS			1.0	.0	12.6		13.3	5.5	.1	1.3	.0	6.4	7193

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

727755

HALMSTROM AFB MT

73-82

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
DEC	00-02		.3	.2	17.0		17.1	6.1		.8		6.6	930
	03-05		.6		16.0		16.5	5.3		.8		5.7	930
	06-08		.4		17.5		17.8	6.0		.3		6.0	930
	09-11		.9		16.0		16.7	7.8	.2	.8		8.3	930
	12-14		1.0		14.2		15.1	7.7		1.0		8.4	930
	15-17		.9	.1	13.8		14.7	6.2		1.0		6.7	930
	18-20		.4	.1	14.2		14.7	5.7		1.0		6.0	930
	21-23		.2	.3	15.9		16.3	5.3		.6		5.6	930
TOTALS			.6	.1	15.6		16.1	6.3	.0	.8		5.7	7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

727755

MALMSTROM AFB MT

73-87

ALL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIR	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JAN	ALL		.1	.1	72.4		22.6	6.2	.1	.7	.0	6.8	7447
FEB			.9	.0	15.9		16.7	8.1	.1	.8		8.9	6768
MAR		.0	2.3	.1	15.9	.0	17.6	7.4	.0	1.4	.1	8.1	7447
APR		.0	5.1	.1	9.3	.0	13.5	5.8	.0	.3		6.0	7207
MAY		.7	12.7		2.3	.1	14.3	3.2	.0	.0	.5	3.7	7447
JUN		2.4	8.8			.0	8.9	.8	.1			.8	7199
JUL		1.7	4.4			.0	4.4	.5			.0	.5	7447
AUG		1.2	6.0				6.0	.5	.1		.0	.6	7447
SEP		.2	6.3		1.6	.0	7.6	1.4				1.4	7207
OCT		.0	4.6		4.1		8.3	3.5				3.5	7447
NOV			1.0	.0	12.6		13.3	5.5	.1	1.3	.0	6.4	7193
DEC			.6	.1	15.6		16.1	6.3	.0	.8		6.7	7447
TOTALS		.5	4.4	.0	8.3	.0	12.4	4.1	.0	.4	.1	4.5	87640

PART A

ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrence of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms or from hourly data and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these daily tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than the percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual categories may differ from the total columns.

A percent value of ".0" in the table indicates less than .05 percent, which is usually only one occurrence.

This presentation is by month with annual totals, and is prepared with all years combined.

- NOTES: (1) A day with rain and/or drizzle was not separately reported in the WBAN data prior to year 1949. Therefore, percentages in this column are restricted to the period Jan 1949 and later.
- (2) A day with freezing rain and/or freezing drizzle is also properly reported as a day with rain and/or drizzle.
- (3) A day with dust and/or sand is included in this summary only when visibility is reduced to less than 5/8 mile.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

XX WEATHER CONDITIONS
XXXXXXXXXXXXXXXXXXXXXXXXXXXX
ATMOSPHERIC PHENOMENA

727755
STATION

MALMSTROM AFB MT
STATION NAME

42-87

YEARS

ALL
MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM DAILY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JAN	DAILY		8.2	.5	47.8		52.7	24.2	1.9	4.6		26.3	1277
FEB		.2	10.8	.9	42.5	.1	48.6	22.2	1.9	3.9		24.5	1178
MAR		.3	17.5	.5	41.4	.1	51.1	19.9	1.0	3.3	.1	21.8	1218
APR		2.1	33.2	.8	29.8	.5	48.7	15.8	.6	1.1	.1	16.4	1183
MAY		10.0	54.2	.1	7.5	1.5	51.6	10.1	.7	.2	.2	11.9	1224
JUN		21.2	56.3		.8	2.1	52.0	7.0	.1		.2	7.2	1201
JUL		22.5	40.5		.1	1.8	37.4	2.3	.1		.1	2.5	1211
AUG		18.1	42.5		.1	1.2	39.2	2.5	.2		.2	2.8	1211
SEP		4.1	38.7	.3	6.1	.3	37.0	6.6	.1			6.6	1172
OCT		.8	25.9	1.7	14.7	.3	31.9	9.6	.2	.3		9.8	1188
NOV			15.6	1.1	30.7		40.3	15.6	.7	2.9	.3	16.6	1157
DEC		.1	12.7	1.5	38.9		46.1	20.5	1.3	3.4		21.8	1192
TOTALS		6.6	29.5	.6	21.7	.7	44.7	13.0	.7	1.6	.1	13.9	14272

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This part of the Uniform Summary consists of eight summaries derived from daily observations as follows:

1. The first set presents, in three tables, the percentage frequency of various daily amounts of PRECIPITATION, SNOWFALL, and SNOW DEPTH. The daily amount summary is prepared by month and annual, all years combined, and includes percent of days with measurable amounts; percent of days having none, traces, and given amounts; and means, greatest and least monthly amounts. (The last three statistics are omitted from the snow depth summary because of their doubtful and limited value.) A total count of valid observations is given for months and annual. Stations are included in which a portion or all of the period may contain months with missing days. This will be noted on the summary pages. A percent value of ".0" in these daily amount tables indicates less than .05 percent which is usually only one occurrence.

2. The second set of three tables presents the extreme daily amounts, by individual year and month, of PRECIPITATION, SNOWFALL, and SNOW DEPTH for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months) and the total valid observation count. An asterisk (*) is printed in any year-month block when the extreme value is based on an incomplete month (at least one day missing for the month). When a month has valid observations reported but no occurrences, zeros are given in the tables as follows:

EXTREME DAILY PRECIPITATION	"00"	equals none for the month (hundredths)
EXTREME DAILY SNOWFALL	".0"	equals none for the month (tenths)
EXTREME DAILY SNOW DEPTH	"0"	equals none for the month (whole inches)

3. The third set of two tables provides the total monthly amounts of PRECIPITATION and SNOWFALL for each year-month and annual. Also prepared are the means, standard deviations, and total number of valid observations for each month and annual (all months). An asterisk (*) is printed in each data block if one or more days are missing for the month. No occurrences for a month are indicated in the same manner as in the extreme tables above. If a trace becomes the extreme or monthly total in any of these tables it is printed as "TRACE."

Continued on Reverse Side

* Values for means and standard deviations do not include measurements from incomplete months.

- NOTES: (1) The above studies may also be prepared for stations operating for less than full months for portions or all of the period of record. This may include stations operating 5 or 6 days a week and those with only random days missing. An asterisk (*) in the data blocks will give an indication that a month is incomplete. Please refer to Station History at front of book and observation counts in each summary to evaluate the amounts of data missing.
- (2) Hail was included in snowfall occurrences in the summary of day observations prior to Jan 56, but these occurrences have been removed from snowfall category and counted as Hail in these summaries.
- (3) Snow Depth was recorded and punched at various hours during the period available from U. S. operated stations. The hours used by each service for each period are as follows:

Air Force Stations:

Beginning thru 1945	at 0800LST
Jan 46-May 57	at 1230GMT
Jun 57-present	at 1200GMT

U. S. Navy and National Weather Service (USWB)

Beginning thru Jun 52	at 0030GMT
Jul 52-May 57	at 1230GMT
Jun 57-present	at 1200GMT

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
PRECIPITATION
(FROM DAILY OBSERVATIONS)

727755 MALMSTROM AFB MT

42-83

STATION

STATION NAME

YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-04	05-14	15-24	25-34	35-44	45-64	65-104	105-154	155-254	255-504	OVER 504					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	49.2	24.7	4.5	9.1	6.5	4.4	1.1	.4	.1					26.1	1271	.72	2.46	TRACE
FEB	52.6	23.4	4.3	8.5	5.2	4.6	1.3	.1						24.0	1158	.56	1.65	.01
MAR	49.9	23.4	4.2	9.8	4.6	5.3	2.4	.4						26.7	1271	.84	2.49	.09
APR	57.6	23.4	4.2	8.0	4.6	5.5	2.9	.6	.2					26.0	1230	1.04	3.31	.06
MAY	46.8	21.7	2.8	7.7	4.0	8.1	4.3	2.8	1.8					31.5	1270	2.54	6.55	.31
JUN	44.2	19.2	3.7	8.3	6.1	7.8	5.1	3.8	1.6	.2				36.6	1229	2.84	5.57	.24
JUL	67.9	16.6	2.8	5.9	3.5	5.2	3.1	1.4	.6					22.5	1271	1.28	4.15	TRACE
AUG	59.6	18.2	2.4	6.0	3.9	4.6	3.4	1.2	.6					22.2	1271	1.27	4.89	.06
SEP	62.1	15.4	2.9	6.6	3.5	5.4	2.4	1.2	.4					22.4	1230	1.10	3.41	.10
OCT	67.7	14.2	2.4	5.0	3.9	4.5	1.5	.7	.2					18.1	1240	.76	2.79	TRACE
NOV	59.8	19.7	2.7	6.7	4.9	4.6	1.2	.2		.1				20.4	1200	.67	3.93	.02
DEC	56.2	21.5	3.9	7.6	4.0	4.8	1.7	.2	.1					22.3	1271	.69	2.71	.02
ANNUAL	55.0	20.1	3.4	7.4	4.6	5.4	2.5	1.1	.5	.0				24.9	14912	1.31		

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

EXTREME VALUES

PRECIPITATION

FROM DAILY OBSERVATIONS

727755 MALMSTROM AFB MT
STATION STATION NAME

42-43 YEARS

24 HOUR AMOUNTS IN INCHES

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
YEAR													
42												.73	
43	.47	.17	.19	.68	.20	1.17	.32	.38	.20	.14	.38	.24	1.17
44	TRACE	.39	.18	.35	.34	1.64	.11	.66	.65	.76	.15	.16	1.64
45	.27	.13	.16	.12	.43	.53	.01	.14	.93			.65	
46	.11	.09	.35	.38	.67	1.28	.57	.26	.56	.56	.64	.17	1.28
47	.31	.27	.72	.26*	.20*	1.13	.05	.18	.34	.20	.25	.32	1.13
48	.14	.09	.20	.20	1.14	1.19	.80	.35	.15	.39	.19	1.70	1.37
49	.88	.31	.35	.24	1.72	.73	.84	.15	.26	.40	.01	.30	1.72
50	.25	.01	.50	.29	.22	.64	1.59	2.00	.32	.72	.31	.13	2.00
51	.27	.73	.42	2.02	1.06	.46	1.05	.66	.73	.20	.19	.30	2.02
52	.08	.37	.26	.38	.32	.07	.13	.52	.14	.12	.18	.79	.87
53	.05	.32	.16	.46	2.05	3.01	TRACE	.91	.73	.18	.28	.35	3.01
54	.13	.20	.11	.17	.22	2.24	.41	.82	.73	1.27	.76	.72	2.24
55	.99	.36	.29	.75	1.28	.45	1.05	.05	.07	.33	.46	.34	1.28
56	.27	.08	.12	.24	.31	.72	.51	.35	.18	.24	.11	.78	.73
57	.14	.25	.13	.17	1.79	.74	.24	.33	.65	.14	.39	.25	1.79
58	.17	.44	.15	.25	.64	.97	.67	.21	.11	.16	.23	.70	.87
59	.21	.21	.29	.22	1.41	1.02	.11	.40	.75	.33	1.19	.22	1.19
60	.07	.25	.03	.53	.57	.43	.16	1.35	.13	.75	.37	.76	1.35
61	.08	.27	.47	.18	.64	.23	.53	.12	.39	.12	.26	.12	.64
62	1.11	.14	.20	.38	1.84	1.15	.31	1.16	.28	.75	.18	.18	1.84
63	.18	.13	.31	.43	.87	.79	.43	.20	.14	.33	.17	.30	.80
64	.37	.24	.42	.31	1.64	3.12	.42	.62	.12	TRACE	.23	.78	3.12
65	.64	.23	.29	.35	.51	1.80	.67	.80	.74	TRACE	.50	.30	1.80
66	.62	.31	.53	.39	1.03	.75	.62	1.09	.22	1.04	.31	.25	1.09
67	.34	.13	.84	.67	.48	.80	.99	.12	1.23	.82	.17	.38	1.23
68	.37	.08	.36	.63	1.48	1.06	.10	1.14	1.13	.03	.80	.76	1.48
69	.33	.14	.33	.10	.74	1.86	.50	.12	.10	.19	.11	.32	1.86
70	.26	.37	.22	.39	1.58	1.91	.46	.45	.12	.24	.12	.15	1.91
71	.17	.14	.36	.30	.57	.52	.19	.40	.98	.20	.24	.19	.98
MEAN													
S D													
TOTAL OBS													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 54 0-88-5 (OLA)

EXTREME VALUES

PRECIPITATION

FROM DAILY OBSERVATIONS

~~727755~~ ~~MALMSTROM AFB MT~~
STATION STATION NAME

42-022

YEARS

24 HOUR AMOUNTS IN INCHES

[illegible]

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES
XXXXXXXXXXXXXXXXXXXX
MONTHLY PRECIPITATION

FROM DAILY OBSERVATIONS

727755 STATION NAME MALMSTROM AFB MT

42-83

YEARS

TOTAL MONTHLY PRECIPITATION IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
42												.17	
43	1.55	.75	.45	1.70	.64	5.57	.84	.93	.54	.28	.41	.27	13.93
44	TRACE	.93	.73	.59	.67	3.79	.32	1.55	1.32	.76	.62	.41	11.07
45	.23	.45	.48	.22	1.51	2.93	.32	.43	2.08			1.52	
46	.13	.19	.67	.54	2.03	3.51	1.49	.70	1.76	1.80	1.23	.35	14.40
47	.54	.79	1.18	.24*	.31*	2.22	.39	.30	.99	.36	1.28	.90	9.00
48	.73	.37	.93	.47	3.58	3.38	1.76	.59	.33	.39	.43	2.71	14.97
49	2.46	.73	1.20	.36	2.87	1.70	1.41	.24	.61	.93	.32	.26	12.79
50	.87	.01	1.88	1.13	.66	2.71	3.75	3.20	.44	.75	1.13	.28	15.41
51	.42	.95	1.61	2.24	1.85	2.04	2.88	1.84	1.51	1.04	.35	1.85	18.58
52	.19	.93	.77	.40	1.18	1.11	.13	.78	.19	.12	.75	.79	6.64
53	.19	.61	.48	2.22	5.55	5.19	TRACE	1.40	1.06	.18	.28	1.04	18.80
54	.58	.45	.75	.64	.78	4.42	.72	1.96	1.82	1.72	.78	.72	14.34
55	1.11	1.21	1.52	2.52	4.22	1.12	3.75	.06	.10	.61	2.01	.86	18.89
56	.63	.21	.23	.68	1.44	2.22	1.19	1.20	.74	.75	.19	.59	9.56
57	1.38	.58	.47	.62	2.60	3.10	.48	1.07	1.31	.92	.67	.12	13.33
58	.32	1.65	.56	.52	1.34	4.63	2.26	.61	.15	.79	.63	1.71	14.07
59	.92	.53	.24	.67	3.26	2.18	.21	.60	1.55	1.08	3.93	.25	15.52
60	.20	.42	.79	1.60	2.25	.83	.45	3.74	.47	.75	.67	.10	10.90
61	.10	.33	.67	.84	1.61	.13	1.32	.24	1.58	.24	.79	.20	8.25
62	1.51	.47	.46	.52	5.31	2.70	1.45	1.70	.40	1.54	.28	.71	17.05
63	.81	.21	.36	1.13	1.72	3.21	.24	.42	.49	1.15	.17	.48	11.17
64	.40	.35	1.64	1.70	5.17	4.76	1.59	1.41	.39	TRACE	.70	.87	18.98
65	1.17	1.23	.45	1.57	1.43	5.19	1.77	1.95	1.92	TRACE	1.04	.66	18.11
66	1.71	.82	1.07	.71	1.21	2.38	1.31	1.67	.32	1.72	1.48	.83	15.43
67	.72	.48	2.49	2.21	1.88	3.42	1.53	.24	2.71	1.63	.49	1.72	19.52
68	1.16	.25	.83	1.32	2.88	3.32	.12	2.76	3.41	.04	.87	1.31	18.27
69	1.46	.35	.61	.30	1.48	4.79	1.37	.20	.18	1.03	.13	.50	12.40
70	.96	1.30	.62	.92	4.43	4.50	1.27	.49	.32	.66	.41	.42	16.30
71	.75	.46	.71	.44	2.59	.82	.75	1.50	1.60	.48	.13	.23	12.56
MEAN													
S.D.													
TOTAL OBS													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

EXTREME VALUES
XXXXXXXXXXXXXXXXXXXXXXXXXXXX
MONTHLY PRECIPITATION

FROM DAILY OBSERVATIONS

~~42-23~~

YEARS

[illegible]

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-3 (OLA)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
SNOWFALL
(FROM DAILY OBSERVATIONS)

707755

MALMSTROM AFB MT

46-83

STATION

STATION NAME

YEARS

AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-04	05-14	15-24	25-34	35-44	45-64	65-104	105-154	155-254	255-504	OVER 504					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	57.7	23.2	9.3	10.5	3.1	1.7	.7	.7	.2					26.1	1178	9.1	23.4	.9
FEB	55.5	22.3	8.4	8.9	2.6	1.1	.6	.4	.3					22.3	1073	6.7	21.5	.1
MAR	56.7	20.5	7.9	8.7	2.9	1.6	.6	.8	.3					22.8	1178	8.5	21.8	1.2
APR	68.3	16.1	5.6	5.8	1.7	1.2	.4	.5	.3	.1				15.5	1147	6.1	20.6	TRACE
MAY	92.2	4.8	1.1	.8	.4	.4		.2		.1				3.0	1178	1.5	19.3	.0
JUN	99.1	.5		.2	.1		.1							.4	1147	.2	4.5	.0
JUL	99.9	.1													1178	TRACE	TRACE	.0
AUG	99.9	.1													1178	TRACE	TRACE	.0
SEP	93.4	4.2	.6	.8	.4	.5		.1						2.4	1140	1.1	10.0	.0
OCT	85.0	8.4	1.9	2.5	1.0	.4	.4	.2	.2					6.6	1178	2.9	13.5	.7
NOV	67.9	15.4	4.4	7.0	2.5	1.6	.4	.6	.3					16.8	1140	6.9	20.4	TRACE
DEC	59.3	19.4	7.8	6.5	3.5	2.1	.9	.4						21.3	1147	8.1	18.7	.1
ANNUAL	77.3	11.2	3.9	4.3	1.5	.9	.3	.3	.1	.0				11.4	13848	51.1		

USAFETAC FORM 0-15.5 (OL A)
OCT 75

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

SNO-FALL

FROM DAILY OBSERVATIONS

727755
STATION

MALMSTROM AFB MT
STATION NAME

46-21

YEARS

24 HOUR AMOUNTS IN INCHES

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
YEAR													
46	2.2	.9	3.5	.1	TRACE	.7	.3	.0	.3	1.4	6.5	6.0	6.5
47	3.1	2.7	7.2	.9	.3	.0	.3	.4	1.7	.2	2.3	2.3	7.2
48	1.4	.9	2.7	2.0	.4	.0	.3	.7	TRACE	3.9	1.9	2.4	3.9
49	3.3	3.1	3.6	TRACE	1.9	.0	.3	.3	2.3	4.0	TRACE	3.0	4.0
50	2.9	.1	4.6	3.4	1.4	4.0	.0	.0	2.7	TRACE	3.2	1.3	4.6
51	2.8	9.8	4.3	1.3	2.5	1.0	.0	.0	.3	1.8	1.9	3.0	9.8
52	.8	3.7	2.6	.2	.7	.0	.7	.0	.0	.0	1.8	.9	3.7
53	.5	3.2	1.5	1.4	1.3	.0	.3	.0	.0	.0	TRACE	3.5	3.5
54	1.3	1.8	1.5	1.8	.3	TRACE	.0	.0	6.3	7.7	.7	.2	7.7
55	8.1	3.6	2.9	7.6	2.4	.0	.1	.0	TRACE	.8	5.8	3.4	8.0
56	2.6	.8	1.2	2.4	2.6	.0	.0	.0	TRACE	1.5	.7	1.1	3.1
57	3.7	2.5	.5	3.9	.7	.0	.3	.2	.5	1.6	3.9	.1	3.9
58	1.1	8.1	2.8	1.0	.7	.0	.3	.0	TRACE	.1	2.6	4.4	8.1
59	5.7	6.0	1.8	1.9	TRACE	.0	.3	.0	.8	1.3	9.5	3.5	9.5
60	.9	2.9	.6	5.5	2.4	.0	.0	.3	.7	TRACE	3.4	1.0	5.5
61	.8	.2	5.5	1.7	TRACE	.0	.0	.0	.1	.5	4.6	1.5	5.5
62	4.6	3.0	1.9	TRACE	TRACE	.0	.3	.0	1.6	.0	1.8	1.9	4.6
63	2.3	1.3	3.1	4.3	TRACE	.0	.3	.0	.0	.0	1.0	1.0	4.3
64	6.1	2.0	3.3	2.5	TRACE	.0	.0	.0	TRACE	TRACE	1.7	3.8	6.1
65	6.4	2.3	.9	2.5	.1	TRACE	.1	.0	2.1	.0	5.0	1.0	6.4
66	5.9	3.1	5.4	1.4	TRACE	.0	.0	TRACE	.7	2.2	3.1	3.0	5.9
67	3.6	1.3	6.3	7.0	3.3	.0	.0	.0	.0	.6	4.9	3.8	7.0
68	3.7	.5	5.6	6.3	.2	.0	.0	.0	3.4	.1	3.4	6.0	6.3
69	7.0	1.6	3.0	1.1	TRACE	2.2	.3	.0	.0	1.6	.5	3.2	7.0
70	2.5	3.9	2.4	9.6	1.4	.0	.0	.0	1.2	1.6	2.5	2.1	9.6
71	3.7	1.6	1.7	1.8	TRACE	.0	.0	.0	TRACE	2.2	1.6	2.8	3.7
72	5.4	5.0	3.6	2.1	TRACE	.0	TRACE	.0	.8	3.6	4.1	3.6	5.4
73	.9	.9	.6	14.5	TRACE	.0	.0	.0	3.2	1.6	5.3	3.5	14.5
74	4.6	.6	1.6	.9	TRACE	.0	.3	.0	.4	.5	TRACE	1.4	4.6
75	3.3	1.4	5.6	5.5	TRACE	.0	.3	.0	.7	5.9	1.7	.7	5.9
MEAN													
S.D.													
TOTAL OBS.													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-3 (OLA)

FROM DAILY OBSERVATIONS

~~727755~~ — ~~MALMSTROM AFB MT~~
STATION STATION NAME

一九四四年

YEARS

24 HOUR AMOUNTS IN INCHES

[illegible]

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES
XXXXXXXXXXXXXXXXXXXXX
MONTHLY SNOWFALL

FROM DAILY OBSERVATIONS

727755 MALLMSTROM AFB MT
STATION STATION NAME

46-23 YEARS

TOTAL MONTHLY SNOWFALL IN INCHES

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
YEAR													
46	3.2	2.6	4.5	.1	TRACE	.1	.1	.1	.1	4.7	11.3	9.5	34.7
47	5.4	7.9	11.6	1.2	.2	.7	.2	.2	2.4	.2	12.6	6.1	47.4
48	6.1	3.4	9.5	3.8	.4	.0	.1	.1	TRACE	3.9	3.3	6.0	36.7
49	10.6	7.3	13.1	TRACE	2.1	.0	.1	.1	2.3	7.3	TRACE	8.3	47.9
50	9.1	.1	18.8	5.9	1.5	4.5	.1	.1	2.7	TRACE	11.4	2.3	56.3
51	4.3	12.2	16.5	2.2	3.9	1.0	.1	.1	.3	5.5	3.4	18.3	67.6
52	1.9	9.8	6.9	.2	.1	.0	.1	.1	.1	.0	7.5	.9	27.7
53	1.4	6.1	3.1	3.0	1.3	.0	.1	.1	.1	.1	TRACE	10.5	25.4
54	7.4	1.8	8.3	6.1	.7	TRACE	.1	.1	10.0	8.9	.7	.2	47.7
55	9.1	12.6	15.3	19.0	3.8	.0	.1	.1	TRACE	.8	18.1	8.3	86.9
56	6.7	2.1	2.3	5.6	5.7	.1	.1	.1	TRACE	2.2	1.4	8.3	32.9
57	16.3	6.1	2.1	6.4	.1	.1	.1	.1	.5	6.1	5.2	.1	43.7
58	1.7	21.5	6.3	1.6	.7	.0	.1	.1	TRACE	.1	7.8	14.2	53.7
59	20.5	13.7	3.6	3.9	TRACE	.1	.1	.1	.9	7.1	15.4	3.8	62.9
60	3.5	6.2	1.2	12.8	2.4	.7	.1	.1	.1	TRACE	17.6	3.1	39.4
61	1.5	.2	5.5	2.7	TRACE	.1	.1	.1	.1	.5	14.2	3.4	28.1
62	14.6	6.4	3.6	TRACE	TRACE	.0	.1	.1	1.6	.0	1.8	3.4	31.4
63	8.4	2.1	3.6	8.6	TRACE	.1	.1	.1	.7	.1	1.1	8.8	32.6
64	6.3	3.4	10.4	7.4	TRACE	.0	.0	.1	TRACE	TRACE	6.2	10.1	43.7
65	9.4	11.5	5.1	8.8	.1	TRACE	.1	.1	2.9	.1	8.5	7.4	53.7
66	16.9	7.7	10.7	4.0	TRACE	.0	.1	TRACE	.1	2.7	16.7	8.6	66.9
67	8.2	4.8	21.8	20.6	3.9	.0	.1	.1	.0	.6	8.4	17.2	85.4
68	11.5	1.7	9.4	8.5	.2	.0	.0	.1	3.4	.1	4.1	14.0	56.9
69	23.4	4.8	6.6	1.1	TRACE	2.2	.1	.1	.1	4.1	.7	5.4	48.3
70	8.9	15.2	5.5	17.4	2.2	.0	.0	.1	1.8	3.3	6.6	6.9	67.6
71	16.4	7.0	6.8	2.1	TRACE	.0	.0	.1	TRACE	4.8	2.1	11.4	50.5
72	17.8	6.7	9.4	2.2	TRACE	.0	TRACE	.1	.8	6.3	4.7	13.4	61.3
73	.9	2.1	1.7	20.5	TRACE	.0	.0	.1	3.9	1.7	15.1	9.1	55.7
74	10.4	1.7	5.4	2.1	TRACE	.0	.0	.1	.4	.7	TRACE	.7	23.4
75	10.7	4.7	12.4	16.4	TRACE	.0	.1	.1	.1	13.3	4.5	2.2	68.7
MEAN													
S.D.													
TOTAL OBS													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-3 (OIA)

USAF ETAC FORM 0-88-5 (OLA)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
SNOW DEPTH
(FROM DAILY OBSERVATIONS)

707755 MALMSTROM AFB MT

42-83

STATION

STATION NAME

YEARS

		AMOUNTS (INCHES)												PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-04	05-14	15-24	25-34	35-44	45-64	65-104	105-154	155-254	255-504	OVER 504					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	33.3	13.6	11.9	8.8	7.2	13.8	9.8	1.7						53.1	1271			
FEB	42.8	13.8	17.2	8.5	7.4	11.6	4.4	1.2						43.4	1158			
MAR	54.8	11.6	7.5	6.5	6.7	10.5	2.7	.5						33.5	1271			
APR	84.6	6.1	3.9	1.3	1.2	1.8	.9	.3						9.3	1237			
MAY	97.4	1.6	.2	.4	.2	.2	.1							1.7	1271			
JUN	99.8			.1		.1								.2	1230			
JUL	100.0														1271			
AUG	100.0														1271			
SEP	98.1	1.0	.6	.2		.1								.9	1230			
OCT	92.9	3.3	1.5	1.0	.8	.5								3.8	1240			
NOV	67.7	9.7	5.7	4.5	3.3	7.1	2.5	.2						23.3	1200			
DEC	45.8	13.0	9.7	9.2	6.4	10.0	5.7	.2						41.2	1271			
ANNUAL	76.4	6.1	4.3	3.4	2.7	4.6	2.2	.3						17.5	14914			

USAFETAC FORM 0-15.5 (OL A)
OCT 75

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

EXTREME VALUES

SNOW DEPTH

FROM DAILY OBSERVATIONS

727755 - MALMSTROM AFB MT
STATION STATION NAME

42-23 YEARS

DAILY SNOW DEPTH IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
42												7	
43	12	9	4	1	2	0	1	0	TRACE	TRACE	5	3	12
44	TRACE	4	3	0	0	0	0	0	0	0	4	5	8
45	3	5	4	1	0	0	0	0	TRACE			16	
46	2	2	0	0	0	0	0	0	0	2	7	6	
47	3	4	5	1	0	0	0	0	1	TRACE	4	2	5
48	5	2	4	2	TRACE	0	0	0	0	0	1	2	5
49	6	7	6	TRACE	2	0	0	0	0	1	5	0	7
50	6	3	8	2	TRACE	4	0	0	0	2	3	4	8
51	3	10	15	1	TRACE	2	0	1	0	TRACE	3	3	15
52	10	7	7	TRACE	1	0	0	0	0	0	7	6	17
53	1	2	6	TRACE	TRACE	0	0	0	1	0	TRACE	4	6
54	9	2	4	2	1	0	0	0	1	2	1	TRACE	9
55	9	4	4	13	2	0	0	0	0	TRACE	7	7	13
56	3	3	1	1	3	0	0	0	0	0	1	4	4
57	7	9	2	1	0	0	0	0	1	1	4	TRACE	9
58	1	11	8	TRACE	7	0	0	0	0	TRACE	4	9	11
59	9	17	2	1	0	0	0	0	0	0	11	2	17
60	5	5	4	8	0	0	0	0	0	0	6	3	8
61	2	TRACE	4	2	2	0	0	1	1	1	7	3	7
62	11	3	3	TRACE	7	0	0	0	0	0	2	4	17
63	7	7	TRACE	5	2	0	0	0	1	0	1	7	7
64	6	2	4	4	0	0	0	0	0	0	6	9	9
65	3	5	5	3	1	0	0	0	2	0	5	3	7
66	12	4	6	1	0	0	0	0	0	0	8	7	12
67	4	1	7	7	1	0	0	0	1	0	5	8	8
68	9	3	7	5	0	0	0	0	2	0	0	10	17
69	18	14	8	0	0	2	0	0	1	2	1	4	18
70	5	5	9	7	0	0	0	0	1	3	2	4	9
71	14	3	3	3	0	0	0	0	0	2	2	5	14
MEAN													
SD													
TOTAL OBS													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-68-5 (OLA)

USAF ETAC FORM 0-88-9 (OLA)

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART C

SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

- *1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through June 1968, and in tens of degrees starting in July 1968. The extreme is selected and printed from available peak gusts for each year-month, however an asterisk (*) is printed in the data block if less than 90% (3 or more missing observations) of the peak gusts are available for the month. An ALL MONTHS value is presented when every month of the year has valid observations. Means and standard deviations are also computed when four or more values are present for any column. A total raw count of valid observations is presented for each month and ALL MONTHS.

NOTE: According to Federal Meteorological Handbook No. 1 specifications (formerly Circular N), "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

- *2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both directions and speed, and in addition the mean wind speed is given for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VRBL.

- a. Three tables are prepared for ALL WEATHER surface winds, all years combined, by: (1) Annual - all hours combined, (2) By month - all hours combined, and (3) By month - by standard 3-hour groups.
- b. A separate annual table is also presented for surface winds meeting INSTRUMENT CLASS conditions as follows: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

NOTE: A percentage frequency of ".0" in these tables represents one or more occurrences amounting to less than ".05" percent.

*Values for means and standard deviations do not include measurements from incomplete months.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

SURFACE WINDS

FROM DAILY OBSERVATIONS

727755 MALMSTROM AFB MT
STATION STATION NAME

47-54, 57-83 YEARS

DAILY PEAK GUSTS IN KNOTS

YEAR	MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
47									WSW 54WSW 50SW 45SW 35					
48			W 61S	59SW 43SW 49W 37W	56SSW 43SW 45SSW 45SSW 49SSW 54									
49		SW 50WSW 57WSW 46SSW 47WNW 39SSW 45WSW 43SSW 61SW 57WNW 62WSW 63W 52												WSW 63
50		WSW 49WNW 45WSW 54WSW 63W 44WSW 43W 50WSW 44WSW 42WSW 50WSW 49SW 43												WSW 63
51		W 46WSW 49WNW 52WNW 36WNW 55NNE 42SW 54WSW 30WSW 33S 47W 48SW 40												WNW 55
52		WSW 44WSW 50WNW 43WSW 36W 41W 51NW 58WNW 43WSW 41WSW 43W 44WSW 47												NW 58
53		SSW 52W 48WSW 49WSW 42WSW 53WNW 39W 38WSW 60W 46WNW 35W 43W 57												WSW 67
54		SW 50												
57												W 51WSW 41		
58		SSW 38SSW 36WNW 37WSW 40W 32WSW 53NW 35W 45WSW 52W 40W 42WSW 46												WSW 53
59		W 39SW 39W 40WSW 41W 38WSW 34W 33WNW 40WSW 48WSW 35WSW 37SSW 40												WSW 49
60		SW 38W 46WSW 37WSW 40WSW 44WSW 41WSW 50N 35WSW 49W 38NW 42SW 34												WSW 52
61		WSW 43SW 48WSW 52WSW 41WNW 41N 40WNW 42WSW 38W 43WNW 41WSW 45SW 54												SW 54
62		SW 46SW 43SW 39W 50SW 48SW 37N 39SW 41W 44WSW 40SW 62NW 46												SW 62
63		NNW 51W 45S 42SW 37W 36W 49SW 53W 43NW 35W 40WSW 44W 49												NNW 51
64		SW 44W 41WSW 42WNW 42WSW 40W 43WSW 52SSW 44NW 42W 42SSW 39SW 43												WSW 52
65		WSW 43WSW 53NNW 31W 39SSW 44WNW 39SW 42W 39WSW 34W 53WSW 39WSW 50												WSW 53
66		W 54WSW 43WSW 39WSW 41SSW 45S 35SW 40WSW 41WSW 47W 44SSW 58SSW 45												SSW 58
67		S 54WSW 51NNE 46WSW 43W 59W 32W 50E 42WSW 41W 60WSW 49SW 45												W 67
68		SW 48SW 36WSW 42WSW 48W 39WSW 4334 5022 5427 3826 3926 4321 50												22 54
69		21 3322 3824 3824 4330 39 4 3328 4125 5025 4122 36												21 37
70		24 5028 5424 4426 4824 3426 7424 4828 4024 5023 4125 4624 46												26 78
71		25 4824 4527 44 5 4926 4526 3628 3824 4936 4229 5030 4925 44												29 57
72		26 5024 5525 5125 4022 3730 3927 5432 3325 3124 3522 4825 55												24 55
73		25 3824 3126 4328 4026 4813 5326 4230 6225 3525 4425 4023 44												37 62
74		27 5327 4025 5428 4026 42 2 3629 4429 3225 3628 3924 4424 54												25 54
75		24 4324 3624 4735 3126 3524 3324 5024 4128 3527 4525 5123 46												25 51
76		24 4824 5025 4936 3926 4127 5422 4725 3732 3223 3823 4223 45												27 54
77		23 4125 4425 4520 3626 3527 3922 44 2 4633 3223 3922 4824 43												22 48
78		23 3223 3424 3925 5426 3723 5034 4526 5024 4724 5025 6823 51												25 69
MEAN														
SD														
TOTAL OBS														

NOTES * BASED ON LESS THAN FULL MONTHS

USAF ETAC FORM 0-00-0 (OEA)

2 (BASED ON LESS THAN FULL MONTHS AND +100 KNOTS)

9 (BASED ON LESS THAN FULL MONTHS AND +100 KNOTS)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-P3
YEARS

JAN
MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	.9	.9	.2								3.3	5.4
NNE	1.6	1.7	1.5	.2	.1							5.2	5.5
NE	1.6	2.7	1.1	.8								6.1	6.0
ENE	.5	1.1	.1									1.7	4.4
E	.3	.1										.3	3.0
ESE	.3	.1										.4	3.0
SE	.3											.2	2.0
SSE	.4	.1										.5	3.0
S	1.1	1.2	.3		.2							2.8	5.4
SSW	1.3	3.8	1.6	.4	.3	.3						8.1	7.0
SW	2.3	4.1	5.5	7.0	4.3	1.7	.1					24.0	11.4
WSW	1.8	3.8	5.3	4.8	3.8	1.7						20.4	11.1
W	1.1	2.3	1.4	1.6	.6	.1	.1					7.6	9.7
WNW	.3	1.0	.5	.1								1.9	6.0
NW	.0	.8	.3	.5								2.5	6.1
NNW	.0	.9	.6	.3								2.7	5.7
VARBL													
CALM												12.2	
	15.9	24.3	19.6	16.3	8.4	3.1	.2					100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

HALMSTROM AFB MT
STATION NAME

74-83
YEARS

JAN
MONTH

ALL WEATHER

CLASS

0300-0500
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.6	.5	.5	.1							3.4	6.4
NNE	1.7	1.4	1.4	.2	.1							4.8	5.7
NE	1.2	2.7	1.1	.2	.1							4.6	5.6
ENE	.6	.8	.1									1.5	3.8
E	.5	.3	.2									1.1	4.0
ESE	.4	.1										.5	2.6
SE	.5	.2										.8	2.7
SSE	.5	.2	.1									.9	3.5
S	1.7	.8	.2	.2								2.2	4.5
SSW	1.1	3.0	1.7	1.0	.2	.5						7.5	8.2
SW	1.7	6.5	6.9	4.4	2.8	1.3	.2					23.8	12.3
WSW	1.2	4.1	4.7	5.3	3.2	1.3	.1					19.9	11.5
W	1.0	2.7	3.8	2.8	.4	.1						10.8	8.7
WNW	.1	1.1	.3	.1								1.6	5.7
NW	.5	.6	.4									1.6	4.7
NNW	.9	.4	.8	.5								2.6	6.6
VARBL													
CALM												12.5	
	13.7	25.8	22.3	15.3	7.0	3.2	.3					100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

JAN
MONTH

ALL WEATHER
CLASS

1500-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.7	1.2	.8								2.7	7.4
NNE	1.1	1.8	1.3	.6								4.8	6.3
NE	.5	1.2	1.1	.2	.1							3.1	6.9
ENE	.5	.9	.5									1.9	4.8
E	1.0	.1										1.1	2.2
ESE	.1											.1	1.0
SE	.7											.7	2.0
SSE	.2	.4										.6	3.5
S	.5	1.0	.5	.3								2.4	6.0
SSW	.9	2.8	1.7	1.1	.3	.1	.1					6.2	8.0
SW	1.2	6.6	6.5	5.5	2.0	1.7	.1					22.8	10.1
WSW	1.7	4.0	5.8	5.9	2.7	1.6	.2					21.9	11.2
W	1.0	2.7	4.0	1.9	.8	.4						11.7	8.6
WNW	.3	.6	.3									1.3	5.3
NW	.4	1.8	.9	.1	.1							3.3	6.2
NNW	.5	.9	.3	.2								1.9	5.4
VARBL													
CALM												13.8	
	11.3	25.7	23.3	16.3	6.0	3.1	.4					100.0	7.7

TOTAL NUMBER OF OBSERVATIONS 932

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

77755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

JAN
MONTH

ALL WEATHER
CLASS

0930-1100
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.7	.8	.1		.1						4.7	5.6
NNE	1.4	2.8	1.7	.6	.1							6.9	6.5
NE	.6	1.1	1.1	.1	.1							3.2	5.8
ENE	1.0	.4	.5									1.9	4.6
E	.3	.3										.6	3.5
ESE													
SE	.3											.3	1.7
SSE	.8											.9	2.1
S	1.0	1.4	.4	.7								3.7	4.9
SSW	1.7	2.6	1.3	1.1	.8		.1					6.8	8.2
SW	1.6	3.5	7.1	7.1	3.7	.9	.1					24.0	11.3
WSW	1.3	3.3	5.4	5.3	3.5	1.3						20.1	11.7
W	1.7	2.6	2.6	1.4	.9	.3	.2					9.5	9.6
WNW	.2	1.2	.3	.4								2.2	6.7
NW	.6	1.7	.7	.7	.1							2.2	6.7
NNW	.8	1.1	.5	.1	.2							2.7	6.2
VARBL													
CALM												11.9	
	13.3	23.0	21.9	17.4	9.4	2.6	.4					100.0	8.1

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

JAN
MONTH

ALL WEATHERED
CLASS

1200-1400
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.6	.9	.9	.7	.1						4.7	7.3
NNE	2.5	2.4	.9	.3		.1						6.1	4.9
NE	1.5	1.9	1.4	.7								5.1	5.4
ENE	.9	1.0	.2									2.0	4.1
E	.9	.1	.2									1.2	3.2
ESE	.2	.3										.5	3.6
SE	.3	.1	.1	.1								.5	5.4
SSE	.3	.1										.4	2.8
S	.5	.5	.1									1.2	4.1
SSW	.9	1.2	.8	1.4	.5	.3						5.1	10.1
SW	.5	2.4	4.1	7.8	3.4	2.6						20.6	13.0
WSW	.8	2.5	4.1	6.7	5.7	1.6	.7					21.5	13.5
W	.9	2.7	2.4	3.3	1.8	.8	.2	.1				12.2	11.6
WNW	.6	1.2	1.0	.5								3.3	6.8
NW	.3	.8	1.1	.4	.2							2.3	8.2
NNW	1.0	.9	1.2	.6	.2							3.9	7.5
VARBL													
CALM												8.8	
	13.0	19.9	18.3	22.4	12.2	4.9	.4	.1				100.0	9.4

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727755

MALMSTROM AFB MT

74-93

JAN

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

1500-1700

CLASS

HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	2.8	1.2	.3								5.2	5.8
NNE	2.4	1.7	1.4	1.4								5.7	6.1
NE	1.0	3.1	1.2	.6	.1							6.2	6.2
ENE	2.2	1.6	.4									4.2	3.8
E	.9	.3										1.1	2.4
ESE	.1											.1	3.0
SE	.2	.2										.4	3.5
SSE	.6											.5	2.0
S	.6	.5	.2									1.4	4.0
SSW	1.1	1.6	1.4	1.1	.4							5.6	8.0
SW	.8	2.9	4.8	5.3	2.0	1.6	.1					17.5	11.8
WSW	.6	2.5	4.3	7.1	3.8	1.2	.3	.1				19.9	13.1
W	.3	1.8	3.4	3.2	1.2	.3	.1	.1				10.5	11.1
WNW	.2	.4	.9	.6								2.6	7.9
NW	.3	.8	1.7	.5	.1							2.7	8.0
NNW	.8	1.4	.4	1.0		.1						3.7	7.6
VARBL													
CALM												12.8	
	12.6	22.0	20.2	20.8	7.6	3.7	.5	.2				100.0	8.3

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFC WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

727755
STATION

HALMSTROM AFB MT
STATION NAME

74-83
YEARS

JAN
MONTH

ALL WEATHER
CLASS

1977-2000
YEARS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.3	1.5	.1	.2							3.9	6.9
NNE	1.7	1.7	.6									3.3	4.8
NE	2.4	1.8	1.7	.2								6.1	4.9
ENE	.4	.4	.0									1.7	5.7
E	.2											.2	1.5
ESE	.1											.1	2.5
SE	.5	.1										.6	2.5
SSE	.8	.5	.1									1.4	3.7
S	1.4	2.6	.8	.2								4.9	4.9
SSW	.4	2.9	1.1	1.2	.3	.1						6.0	7.9
SW	1.2	3.9	5.8	5.2	2.8	1.6	.1					20.5	11.4
WSW	.4	3.1	5.3	4.8	3.3	1.7	.3					18.5	12.4
W	.8	1.6	2.4	1.8	.4	.7	.1	.1				7.5	9.9
WNW	.9	.9	.4	.3								2.5	5.5
NW	1.2	1.0	.3	.2								2.7	4.5
NNW	.6	.9	.5	.8	.3							3.1	8.7
VARBL													
CALM												16.8	
	13.0	22.7	21.4	14.8	7.4	3.2	.5	.1				100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 937

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

JAN
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	1.7	1.2	.5	.7	.1						5.3	6.9
NNE	1.6	2.6	1.2	.5	.1							5.8	5.5
NE	1.1	1.1	1.1	.3								3.5	5.8
ENE	.6	1.4	.1	.2								2.4	4.9
E	.8											.9	2.7
ESE	.2	.1										.1	2.3
SE	.2											.1	2.5
SSE	1.2	.1	.1	.1								1.5	3.7
S	1.3	1.6	.5	.1								3.5	4.8
SSW	1.8	4.1	.9	1.1	.4	.4						8.8	7.6
SW	.9	5.7	5.6	5.6	2.6	1.3	.2					21.8	10.9
WSW	.4	2.4	5.8	4.4	3.4	1.6	.1					18.5	12.4
W	1.7	2.2	2.3	1.7	.4	.3	.2		.1			8.2	10.1
WNW	.4	.5	.9	.4		.1						2.3	8.5
NW	.5	1.1	.5	.4	.1							2.7	6.9
NNW	.1	1.0	.3	.3								1.9	6.7
VARBL													
CALM												12.5	
	14.1	25.5	27.4	15.6	7.3	4.7	.5		.1			100.0	7.9

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AJP WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

727755
STATION

HALMSTROM AFB MT
STATION NAME

74-83
YEARS

JAN
MONTH

ALL WEATHER
CLASS

ALL
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N	1.7	1.6	1.7	.4	.1	.7						4.1
NNE	1.6	2.7	1.2	.4	.1	.7						5.3
NE	1.3	1.0	1.2	.3	.1							4.7
ENE	.9	.9	.4	.7								2.2
E	.6	.1	.1									.8
ESE	.7	.1										.3
SE	.3	.1	.7	.7								.4
SSE	.6	.2	.7	.7								.8
S	.9	1.2	.4	.1	.7							2.7
SSW	1.7	2.7	1.2	1.1	.4	.7	.7					6.8
SW	1.3	4.5	5.8	6.7	2.8	1.4	.1					11.9
WSW	1.1	3.2	5.1	5.5	3.7	1.3	.7	.7				12.1
W	1.7	2.3	2.8	2.3	.8	.3	.1	.7	.7			9.7
WNW	.4	.9	.6	.3	.7							2.2
NW	.6	1.7	.6	.3	.1							2.6
NNW	.7	.6	.6	.5	.7	.7						2.8
VARBL												
CALM												12.6
	13.4	23.6	20.9	17.4	8.2	3.4	.4	.1	.7			100.0

TOTAL NUMBER OF OBSERVATIONS

7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-03
YEARS

FEB
MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	.6	.8	.6								3.7	6.6
NNE	.7	1.9	1.4	.1								4.1	6.1
NE	.6	2.2	.7	.1								3.7	5.3
ENE	.4	.8										1.2	3.8
E	.5	.1										.5	2.6
ESE	.1	.1										.2	3.0
SE	.6	.1										.7	2.3
SSE	.2	.4										.6	3.8
S	1.8	1.5	.4	.1	.4							4.1	5.5
SSW	.8	3.2	2.2	1.7	.5	.2						8.6	8.5
SW	1.4	4.7	8.7	11.8	1.9	.8	.2					29.7	10.8
WSW	.7	2.4	4.6	5.2	2.1	.9	.1					16.1	11.8
W	.7	1.8	2.2	3.0	.5	.1						8.3	9.9
WNW	.2	.7	.9	.1								2.7	6.6
NW	.1	.4	1.1	.2								2.2	7.4
NNW	.7	.2	.7	.1								1.8	5.5
VARBL													
CALM												13.1	
	10.5	21.6	23.9	23.0	5.3	2.1	.4					170.7	8.0

TOTAL NUMBER OF OBSERVATIONS 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

FEB
MONTH

ALL WEATHER

CLASS

CONDITION

7300-0500
HOURS (LST)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.1	.4									2.1	4.8
NNE	.5	2.5	1.7	.6	.7	.7						5.6	7.9
NE	1.1	1.1	1.1	.6	.1							3.9	6.8
ENE	.1	.6	.1									.9	5.0
E	.7											.2	1.5
ESE	.7											.2	2.5
SE	.5											.5	2.5
SSE	.2	.1										.4	3.0
S	.5	1.2	.5	.1								2.2	5.4
SSW	1.9	3.7	2.6	1.5	.6							9.6	7.5
SW	2.1	4.3	9.2	11.1	2.7	.6	.5					10.5	11.1
WSW	.6	2.2	5.7	4.0	3.7	.6	.1	.1				16.3	11.5
W	1.2	2.6	3.7	2.4	.8	.1						10.0	8.9
WNW	.4	.4	1.2	.1								2.0	7.1
NW	.7	.7	.5									1.9	4.8
NNW	.4	.9		.7	.1							1.7	6.8
VARBL													
CALM												12.1	
	11.2	20.6	25.8	27.6	7.6	1.5	.6	.1				100.0	8.2

TOTAL NUMBER OF OBSERVATIONS

846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

FEB
MONTH

ALL WEATHER
CLASS

0600-0800
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	.8	.7	.7								2.6	5.9
NNE	.4	1.2	1.4	.6	.1							3.9	8.2
NE	.8	2.1	.8	.4								4.1	5.8
ENE	.5	.1	.1									.7	3.7
E	.6	.1										.7	2.2
ESE			.1									.1	7.0
SE		.1										.1	4.0
SSE	.7	.5										.7	3.3
S	.9	.8	.8	.2	.1							3.0	6.2
SSW	.9	3.7	3.1	3.0	.7	.1						10.8	9.2
SW	1.7	4.3	6.3	10.9	2.4	.2	.2	.1				25.7	10.8
WSW	1.7	2.6	5.1	5.0	2.6	.5						17.4	11.0
W	.9	2.5	3.2	2.4	.4							9.0	8.3
WNW	.5	.5	.6	.7								2.2	7.1
NW	1.4	.8	.5	.1								2.8	4.5
NNW	1.7	.6	.2	.4	.1							3.0	5.2
VARBL													
CALM												13.2	
	13.0	20.0	22.8	23.8	6.0	.8	.2	.1				100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

FEB
MONTH

ALL WEATHER
CLASS

0000-1100
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.1	.8	.9	.2							4.7	7.8
NNE	.8	1.8	1.7	.9	.2							5.4	7.9
NE	.8	1.8	1.1	.6	.1							4.4	6.7
ENE	.7	1.2	.5									2.4	4.5
E	.7		.1									.8	2.7
ESE	.4		.1									.5	3.5
SE	.7	.1										.4	2.7
SSE	.4	.4		.1								.9	5.3
S	.5	.2	.5	.2	.1							1.5	7.5
SSW	1.1	.6	2.0	1.7	2.0	.2						7.6	11.9
SW	1.1	2.6	6.3	17.4	5.9	2.0	.4					28.6	13.1
WSW	.2	2.2	4.6	6.1	3.3	1.5	.1					18.2	13.0
W	.7	1.4	1.8	2.1	1.3	.9						8.3	12.1
WNW	.5	.7	.5	.4								2.7	6.1
NW	.6	.7	.9	.1	.1							2.5	6.6
NNW	.7	.2	.4	.4	.2							1.9	7.8
VARBL													
CALM												10.8	
	10.3	15.0	21.2	24.0	13.6	4.7	.5					100.0	9.8

TOTAL NUMBER OF OBSERVATIONS 646

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755 MALMSTROM AFB MT 74-83 FEB
STATION STATION NAME YEARS MONTHS
ALL WEATHER
CLASS
CONDITION
1200-1400
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.5	1.3	.8								4.8	6.6
NNE	1.1	1.9	1.8	.8	.1							5.7	7.2
NE	1.4	2.2	3.4	.5								7.1	6.3
ENE	.9	2.2	.5									3.7	4.6
E	.7	.4										1.1	2.8
ESE	.4	.1	.1									.6	3.8
SE	.1	.1	.2									.5	6.3
SSE	.4	.2										.6	3.2
S	.5	.2	.2	.2								1.2	5.4
SSW	.6	.5	.7	1.8	1.1	.4	.5					5.4	13.7
SW	.1	.7	5.6	8.4	6.6	3.7	.7					25.1	15.3
WSW	.8	.7	1.9	6.1	5.0	2.5	.7	.1				17.8	16.7
W	.5	.8	2.8	2.5	2.0	1.7	.1					10.4	14.1
WNW	.8	.8	.6	.7	.5	.2	.1					3.8	10.0
NW	.1	1.2	.8	.6		.1						2.8	8.7
NNW	.9	1.1	.9	.6	.1							3.7	7.2
VARBL													
CALM												5.8	
	10.5	14.8	20.4	23.0	15.4	7.8	2.1	.1				170.0	11.3

TOTAL NUMBER OF OBSERVATIONS 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

HALMSTROM AFB MT
STATION NAME

74-83
YEARS

FEB
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.1	.9	.4								4.1	5.9
NNE	1.4	2.2	2.2	.4	.1							6.4	6.4
NE	1.2	2.8	2.1	1.1								7.2	6.5
ENE	1.2	2.2	.4	.1								3.9	4.8
E	.9	1.9										2.8	3.8
ESE	.1	.4	.1									.6	5.0
SE	.4	.4	.1									.8	5.0
SSE	.1	.1										.2	3.0
S	.6	.8	.1									1.5	4.2
SSW	.5	.9	1.3	.7	.5	.1						4.2	10.1
SW	.5	1.5	7.4	8.7	4.8	2.7	.1					25.2	13.2
WSW	.5	.5	3.7	7.7	3.1	1.2	.2					16.1	14.2
W	.4	1.3	1.5	4.6	2.1	1.3						10.6	14.0
WNW	.2	1.1	.6	.5	.6	.1						3.1	10.6
NW	.6	1.3	.9	.4								3.2	6.5
NNW	.5	.9	1.4	.6								3.4	7.4
VARBL													
CALM												6.7	
	9.7	20.6	22.2	24.5	11.2	4.7	.4					100.0	9.8

TOTAL NUMBER OF OBSERVATIONS 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

HALMSTROM AFB MT
STATION NAME

74-83
YEARS

FEB
MONTH

ALL WEATHER
CLASS

1879-2000
YEARS (L.S.Y.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.7	.5	.1	.1							3.7	5.1
NNE	1.2	2.1	1.7	.5	.1							5.6	6.4
NE	1.8	2.7	2.0	.7	.1							6.6	6.2
ENE	1.2	.8	.1									2.1	3.6
E	.4	.2										.6	2.8
ESE	.1	.7										.4	4.3
SE	.5	.5	.1	.1								1.2	4.8
SSE	.9	.2	.4									1.5	4.1
S	.9	1.1	.7	.2								3.7	5.2
SSW	.5	3.4	2.8	1.4	.4							8.5	8.1
SW	.4	3.7	7.3	7.3	2.7	1.2	.1					22.7	11.8
WSW	.5	1.9	3.4	5.4	2.4	.6						14.5	12.1
W	.8	1.4	3.3	3.9	.7	.2						9.9	10.2
WNW	.6	1.3	.7	.2								2.8	5.8
NW	.6	.8	.8	.2								2.6	6.9
NNW	.2	.9	.6	.9								2.7	8.1
VARBL													
CALM												11.6	
	11.8	22.3	24.9	21.2	6.7	2.7	.1					170.0	8.1

TOTAL NUMBER OF OBSERVATIONS 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

FEB
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.5	1.3	.7								4.5	6.7
NNE	1.9	2.5	1.9	.8		.1						7.2	6.3
NE	.7	1.9	.7	.2								3.5	5.6
ENE	.4	.5	.1									.9	4.3
E	.4											.4	2.7
ESE	.5		.1									.6	3.4
SE	.1	.1										.2	3.5
SSE	.4	.5	.1									.9	3.8
S	.9	3.2	.7		.1							5.0	5.1
SSW	1.7	3.4	2.4	1.9	.7							12.0	7.9
SW	.8	4.1	8.5	9.6	2.8		.4					26.8	11.2
WSW	.9	2.2	4.4	5.7	1.7	.5						15.4	11.0
W	.5	1.8	1.9	2.2	.4	.1						6.9	9.4
WNW	.2	.7	.6		.1							1.7	6.9
NW	.6	.6	1.1	.1								1.8	7.4
NNW	.2	.6	.8	.2								1.9	7.8
VARBL													
CALM												12.3	
	17.5	23.6	24.6	21.5	5.8	1.3	.4					100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 896

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

FEB
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L & T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.3	.8	.5	.7							3.6	6.3
NNE	1.0	2.0	1.7	.6	.1	.7						5.5	7.0
NE	1.7	2.0	1.4	.5	.7							5.1	6.2
ENE	.7	1.1	.2	.0								2.0	4.4
E	.5	.3	.7									.9	3.0
ESE	.2	.1	.1									.4	3.9
SE	.3	.7	.1	.0								.5	4.1
SSE	.4	.3	.1	.0								.7	3.9
S	.8	1.1	.5	.1	.1							2.7	5.5
SSW	1.7	2.2	2.1	1.7	.8	.1	.1					8.1	9.3
SW	1.7	3.2	7.4	9.8	3.7	1.3	.3	.7				16.8	12.1
WSW	.7	1.8	4.1	5.7	7.9	1.7	.2	.7				16.5	12.6
W	.7	1.7	2.5	2.8	1.0	.6	.0					9.2	11.0
WNW	.4	.8	.7	.3	.1	.7	.7					2.5	7.8
NW	.5	.9	.8	.2	.7	.0						2.5	6.6
NNW	.7	.7	.6	.4	.1							2.5	7.7
VARBL													
CALM												10.7	
	10.9	19.8	23.2	22.7	8.9	3.1	.6	.7				100.0	8.9

TOTAL NUMBER OF OBSERVATIONS 6768

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AID WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

MAR
MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.8	1.4	.8		.1						4.9	6.9
NNE	1.1	1.5	1.2	.3								4.1	5.9
NE	.3	2.2	1.1	.3								3.9	6.4
ENE	.8	.5	.1									1.4	3.5
E	.1	.7										.3	3.7
ESE	.4	.1	.1									.6	3.0
SE	.9	.3	.1									1.3	3.2
SSE	.2	.6	.1	.1								1.1	4.7
S	1.4	1.6	.6	.1								3.8	4.7
SSW	1.8	5.8	2.4	1.6	.3							11.9	6.6
SW	1.2	5.9	8.4	5.5	.9							21.8	8.8
WSW	1.3	3.2	4.3	5.6	1.9	.4	.1					16.9	10.6
W	1.3	1.4	2.4	1.7	.2	.1						7.1	8.1
WNW	.8	.9	.3	.1	.1							2.2	5.8
NW	1.7	.2	.9	.2	.1	.1						2.5	7.3
NNW	.4	1.2	.8	.1	.2	.2						2.9	8.5
VARBL													
CALM												13.3	
	13.8	27.5	24.1	16.5	3.8	1.7	.1					100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 932

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-03
YEARS

MAC
MONTH

ALL WEATHER
CLASS

0800-0500
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.5	1.1	.4	.4	.1						4.7	8.5
NNE	1.5	2.7	1.7	.5								6.5	5.8
NE	1.3	1.7	.4	.1								2.3	4.4
ENE	1.7	.2										1.2	2.5
E	.2	.8										1.0	4.0
ESE	.3											.3	2.7
SE	.8	.2										1.7	2.6
SSE	.6	.4	.2									1.3	4.0
S	1.5	1.3	.4	.3								3.5	5.0
SSW	1.6	4.7	1.4	.4	.3							8.8	6.7
SW	1.6	5.4	8.4	5.1	1.4	.3						21.6	9.0
WSW	1.7	4.0	5.7	6.1	1.9	.4						19.1	10.2
W	.6	1.7	2.5	1.5	.3		.1					6.9	9.1
WNW	1.7	.6	.5	.2								2.4	5.2
NW	.4	.5	.5	.3								1.9	7.2
NNW	.8	1.7	1.2	.3	.1	.1						3.4	7.1
VARBL													
CALM												14.5	
	14.6	26.7	24.5	15.4	4.7	.9	.1					100.7	6.7

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755 STATION MALMSTROM AFB MT 74-83 YEARS
STATION NAME MAP NORTH
ALL WEATHER CLASS 2620-2800 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.6	1.5	1.7	.6							5.6	8.6
NNE	.8	2.7	1.4	1.7	.3							5.5	7.9
NE	1.7	1.6	1.1									3.7	4.9
ENE	1.2	.7	.7									1.6	2.9
E	.8	.5										1.3	3.0
ESE	.4	.1	.1									.6	3.3
SE	.9											.8	1.9
SSE	.3	.2	.1	.1								.8	5.3
S	.6	1.5	.5									2.7	5.0
SSW	1.5	3.3	2.7	1.2								8.1	6.5
SW	1.4	5.2	7.6	7.0	.9	.7						22.3	9.2
WSW	.9	3.5	9.1	5.9	1.6	.4	.7					27.5	10.3
W	.9	2.3	2.4	1.1	.3	.7	.1					7.2	8.5
WNW	.4	.4	.3	.1	.1	.1						1.5	7.9
NW	.5	.3	.1	.3								1.3	6.6
NNW	1.7	.5	.4	.2	.1	.1						2.4	6.9
VARBL													
CALM												14.2	
	13.2	23.4	25.9	17.8	4.7	1.1	.3					100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 937

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AID WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

727755
STATION

MAHSTROM AFB MT
STATION NAME

74-83
YEARS

MAC
MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	.9	2.0	1.8	.2							6.5	8.3
NNE	2.4	1.1	1.5	.6								5.6	5.5
NE	1.4	1.6	.8									4.2	4.1
ENE	1.4	.8	.1									2.4	3.3
E	1.2	.5		.1								1.8	3.4
ESE	.5	.4										1.0	3.0
SE	.2	.3	.1									.6	4.8
SSE	.4	.2										.6	3.5
S	.1	.5	.2									.9	5.6
SSW	.6	.8	.8	2.4	1.4							5.9	11.8
SW	.6	1.9	3.4	7.6	4.3	.9						18.8	13.7
WSW	.5	1.7	3.2	7.6	4.3	2.5	.2					22.0	14.3
W	.6	3.0	1.7	3.0	1.9	1.7	.2					11.5	12.3
WNW	1.3	1.7	1.1									4.1	4.7
NW	.8	1.1	.8	.5	.1	.1						3.3	7.3
NNW	.6	1.1	.8		.3	.1						2.9	7.2
VARBL													
CALM												7.8	
	14.7	17.7	16.5	25.7	12.6	4.5	.4					100.0	9.6

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

MAC
MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	1.8	2.3	2.4	.3							8.4	8.4
NNE	1.0	2.4	1.4	1.0	.5							5.2	7.8
NE	1.5	2.6	1.3	.3								5.7	5.3
ENE	.3	1.7	.5	.1								2.4	5.7
E	.5	.6	.5	.1								1.8	5.5
ESE	.7	.5	.1									.9	5.1
SE	.1	.2										.7	3.3
SSE	.1	.2	.2									.5	5.8
S	.3	.1	.3	.1	.3							1.2	9.5
SSW	.6	.5	1.1	1.2	.8	.2						4.4	11.1
SW	.7	1.4	2.4	6.0	4.3	1.3	.2					15.3	14.5
WSW	.9	1.4	2.2	5.5	5.4	2.4	.6	.7				18.4	15.6
W	1.2	1.7	2.9	4.0	2.4	2.7						14.9	13.4
WNW	.4	1.4	1.2	.9	.3	.7						4.4	9.4
NW	.6	2.5	1.2	.8	.2	.3						5.6	8.1
NNW	.8	1.3	1.4	1.5	.4	.1						5.5	3.4
VARBL													
CALM												3.7	
	10.8	19.7	18.9	23.8	14.9	7.2	.9	.2				100.7	10.9

TOTAL NUMBER OF OBSERVATIONS

92

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

MAP
DORTH

ALL WEATHER
CLASS

1500-1700
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	1.7	2.7	2.2	.9	.4						9.2	9.7
NNE	1.7	2.4	3.1	2.7	.2	.1						8.8	8.2
NE	1.4	2.8	2.5	1.2								7.8	6.8
ENE	1.8	1.7	.6	.3								3.8	5.7
E	.8	.6	.7									1.6	4.3
ESE	.3	.1	.3									.8	5.6
SE	.3	.2	.2	.1								.9	5.8
SSE	.2	.1	.5	.1								1.7	6.2
S	.4	.9	.9	.6	.1							2.9	7.9
SSW	.2	1.7	1.7	1.5	1.7	.1						6.2	10.8
SW	.2	2.3	1.9	4.9	1.8	1.1						12.3	12.9
WSW	.3	1.7	1.9	5.3	3.7	2.7	.8					14.3	15.7
W	.6	1.1	2.3	3.2	3.5	2.5						13.2	14.9
WNW	.3	.5	1.4	.6	.3	.2						3.4	12.1
NW	1.7	1.5	1.9	1.2	.4							6.7	8.3
NNW	.5	1.2	1.7	.9	.3							4.6	8.6
VARBL													
CALM												3.1	
	17.9	19.7	24.7	24.2	11.6	6.5	.8					170.0	10.5

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

MAC
MONTH

ALL WEATHERED
CLASS

1822-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	2.9	2.5	1.8	.3	.1						8.2	8.4
NNE	1.3	3.7	2.8	1.5	.2	.1						9.6	7.6
NE	1.4	2.0	2.0	.4								6.8	6.7
ENE	1.4	1.1	.3	.3								3.1	4.7
E	1.4	.3	.2									1.9	2.9
ESE	.3	.6		.2								1.2	5.5
SE	.3	.8	.7									1.3	4.9
SSE	1.7	.5	.1									1.6	3.7
S	1.6	2.8	2.0	.4								6.9	5.8
SSW	.8	2.7	2.8	.9								7.1	7.1
SW	.7	4.7	4.7	3.9	.9	.2						13.1	9.9
WSW	.1	1.8	3.2	5.3	1.8	.4	.1					12.8	12.2
W	.3	1.1	2.2	2.7	.9	.3						7.4	11.5
WNW	.1	1.2	1.3	.6	.2							3.4	8.9
NW	.3	.3	.8	.1								1.5	6.8
NNW	.8	1.7	1.1	1.0	.4							4.9	8.7
VARBL													
CALM												9.1	
	11.8	28.4	25.5	19.1	4.7	1.2	.1					100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

MAP
MONTHS

ALL WEATHER
CLIM

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.6	1.6	1.2	.3	.1						5.8	8.2
NNE	1.3	2.7	1.3	.9	.4	.1						6.7	7.2
NE	.8	3.1	.4	.3	.2							4.9	6.0
ENE	.5	.6										1.2	3.5
E		.1		.1								.2	8.5
ESE	.1	.3	.1									.5	5.7
SE	.2	.9	.1	.1								1.3	5.5
SSE	.8	.8	.5	.1								2.2	5.2
S	1.8	3.9	1.5	.2								7.4	4.9
SSW	1.7	5.5	2.9	1.4	.2							11.0	6.9
SW	.8	5.4	7.1	4.8	1.0	.1						19.1	9.1
WSW	.4	1.8	3.5	6.1	1.1	.1						13.1	10.9
W	.5	1.3	2.2	1.8	.2							6.0	9.1
WNW	.4	.6	.4	.4	.1							2.7	7.2
NW	.3	.9	.6	.1								1.9	6.1
NNW	.6	1.5	1.5	.3	.2							4.2	7.2
VARBL													
CALM												12.5	
	10.5	31.0	23.9	18.0	7.8	.4						170.0	6.9

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727755 MALMSTROM AFB MT 74-83 MAR MONTH
STATION STATION NAME YEARS
ALL WEATHER CLASS
CONDITION
ALL MONTHS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.7	1.9	1.4	.4	.1						6.6	8.5
NNE	1.3	2.3	1.8	1.0	.2	.0						6.6	7.1
NE	1.2	2.2	1.2	.3	.0							5.3	5.7
ENE	1.1	.7	.2	.1								2.1	4.1
E	.6	.5	.1	.0								1.2	4.0
ESE	.3	.3	.1	.0								.7	4.3
SE	.4	.4	.1	.0								.9	4.1
SSE	.5	.4	.2	.1								1.1	4.7
S	1.0	1.6	.8	.2	.1							3.7	5.6
SSW	1.0	3.1	1.9	1.3	.5	.7						7.9	7.8
SW	.8	3.9	5.4	5.6	1.9	.5	.0					18.1	10.5
WSW	.7	2.3	4.7	6.2	2.6	1.1	.3	.0				17.2	12.5
W	.8	1.7	2.3	2.4	1.2	.8	.1					9.3	11.6
WNW	.6	.9	.8	.4	.1	.1						2.9	7.6
NW	.6	.9	.8	.4	.1	.1						3.0	7.6
NNW	.7	1.2	1.1	.5	.3	.1						3.9	8.0
VARBL													
CALM												9.8	
	12.5	24.1	22.9	27.1	7.4	2.8	.3	.0				100.0	8.3

TOTAL NUMBER OF OBSERVATIONS 7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755 MALMSTROM AFB MT 74-83 APR
STATION STATION NAME YEARS MONTH
ALL WEATHER 0000-2000
CLASS HOURS (L & T)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	.8	1.8	.8	.8	.1							4.2	7.3
NNE	.6	1.3	2.1	.8	.4							5.2	8.5
NE	.9	.9	.9	.8	.2							3.7	7.7
ENE	.4	.9		.1								1.4	4.7
E	.6	.2	.1									.9	3.8
ESE		.4		.1								.6	6.4
SE	.7	.9	1.4									3.0	6.2
SSE	.9	1.1	1.2	.2								3.4	5.8
S	1.6	4.6	2.3	.1								8.6	5.5
SSW	1.4	5.4	2.3	.4								9.7	5.7
SW	2.1	6.2	7.1	2.2	.7	.1						18.4	7.6
WSW	1.0	4.4	5.2	4.1	.2							15.7	8.6
W	.3	1.6	2.1	2.4	.3							6.3	9.4
WNW	.6	.7	1.2	.1								2.6	6.3
NW	1.0	1.3	.8	.2								3.3	5.3
NNW	.3	1.2	.6	1.0								3.1	7.9
VARBL													
CALM												10.6	
	13.1	33.0	28.2	13.0	2.0	.1						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 970

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

APP
MONTH

ALL WEATHER
CLASS

0300-2500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	1.6	1.1	.7	.2							5.7	6.6
NNE	.6	1.2	1.0	.3	.3							3.4	7.5
NE	.7	1.0	.4	.8	.2							3.1	8.1
ENE	.3	.4		.1	.1							1.7	6.3
E	.4	.2	.1									.8	3.1
ESE	.3		.1									.4	3.5
SE	.2	.3	.2	.2								1.7	7.1
SSE	.9	1.2	.1									2.2	3.8
S	2.7	3.4	.7									6.1	4.4
SSW	2.7	4.6	1.2	.4								8.9	4.9
SW	1.4	7.7	8.6	3.3	.6	.1	.1					21.8	7.9
WSW	1.7	5.7	4.7	3.7	.4							16.1	7.9
W	1.6	3.2	2.4	1.7								8.9	7.1
WNW	.6	1.2	1.0	.1								2.9	6.0
NW	.3	1.2	.7	.4								2.7	7.1
NNW		.8	.8	.9								2.4	8.8
VARBL													
CALM												13.2	
	15.1	33.8	23.1	12.7	1.9	.1	.1					100.0	6.2

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727755
STATION

HALMSTROM AFB MT
STATION NAME

74-P3
YEAR

APP
MONTH

ALL WEATHER

CLASS

0600-0800

MOVES (L.S.V.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.3	1.4	.6	.2	.4						5.7	7.7
NNE	.6	1.6	1.1	.1								3.3	5.9
NE	.3	.9	.6	1.3								3.1	9.3
ENE	.3	.3		.1								.8	4.7
E	.3	.1	.3									.8	5.0
ESE	.3											.3	1.3
SE	.8	.3										1.1	3.1
SSE	.7	.6	.2									1.4	4.2
S	2.2	1.4	.7	.4								4.8	5.1
SSW	1.2	2.7	1.2	.6								5.7	6.1
SW	2.1	6.3	7.6	5.0	1.4	.3						22.7	9.0
WSW	1.4	5.3	4.8	3.9	.8	.2	.1					16.6	8.8
W	1.2	3.2	2.0	1.7	.2	.1						8.4	7.6
WNW	.7	1.3	1.2	.2								3.4	6.1
NW	.6	.4	.9	.6	.1							2.6	8.2
NNW	1.0	1.1	1.0	1.0	.2							4.3	7.8
VARBL													
CALM												15.0	
	15.4	27.0	23.0	15.4	3.0	1.0	.1					100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

WALMSTROM AFB MT
STATION NAME

74-93
YEARS

APP
MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	1.6	1.7	.8	.3	.2						6.4	7.3
NNE	1.8	1.7	1.7	.1	.1							4.7	5.2
NE	.9	1.9	.9	.9	.2							4.8	7.2
ENE	.6	.6	.4	.1								1.7	5.4
E	.4	.7	.1									1.2	4.2
ESE	.8	.2										1.0	2.8
SE	.6	.2										.8	2.6
SSE	.1	.2	.1	.1								.6	6.4
S	.6	.9	.2	.9	.1	.1						2.8	8.5
SSW	.8	.7	1.7	2.1	.4							5.0	10.5
SW	1.0	2.0	3.2	5.3	1.8	.3						13.7	11.3
WSW	1.1	1.6	3.9	7.9	2.9	1.1	.1	.1				18.7	12.8
W	2.0	3.3	5.7	5.0	2.6	.2	.1					18.9	10.3
WNW	.9	.9	.9	1.0	.2	.2						4.1	8.7
NW	.4	1.4	1.2	1.3	.1							4.6	8.4
NNW	.4	.9	1.7	1.2	.1							4.3	8.9
VARBL													
CALM												6.9	
	14.2	18.7	22.0	26.8	8.9	2.2	.2	.1				100.0	9.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

HALMSTROM AFB MT
STATION NAME

74-83
YEARS

APR
MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.4	3.2	1.7	.3	.1						8.4	8.5
NNE	1.4	1.9	1.1	.9								5.3	6.1
NE	.8	2.3	1.6	.9	.2	.1						5.9	7.7
ENE	.6	1.2	.9	.4		.1						3.2	7.1
E	.9	1.3	.2									2.4	4.3
ESE	.4		.3									.3	4.7
SE	.3		.1	.1								.6	5.8
SSE	.2	.3	.1									.7	4.5
S	.4	.8	1.0	1.1	.2							3.6	9.5
SSW	.6	.9	1.2	2.4	.1	.2						5.4	10.3
SW	1.4	1.9	3.2	4.0	.7	.4						11.7	10.2
WSW	.7	1.3	3.9	5.9	2.2	1.1	.2					15.3	12.8
W	.9	2.0	4.2	5.2	2.3	.8	.2					15.7	12.1
WNW	.3	1.3	1.9	1.0	.4	.1						5.1	9.4
NW	1.0	.7	2.1	1.0	.4	.2						5.4	9.2
NNW	1.1	1.3	2.0	1.6	.4							6.4	8.7
VARBL													
CALM												4.0	
	11.8	19.8	27.1	26.2	7.4	3.2	.4					100.0	9.4

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-93
YEARS

APR
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.4	2.7	1.6	.1							7.1	8.0
NNE	.6	1.2	2.7	1.8	.2							6.4	8.9
NE	1.0	1.3	2.1	1.2	.2							5.9	7.8
ENE	.6	.4	1.9	1.1	.2	.1						4.3	9.6
E	.4	1.2	1.2	.8	.1							3.8	7.8
ESE	.3	.6	1.0	.2								2.1	6.8
SE	.2	.3	.6	.1	.1							1.3	7.7
SSE	.6	.7	.1	.3								1.7	5.9
S	.7	.9	.8	.8								3.1	7.2
SSW	.4	1.6	2.1	1.2	.3							5.7	8.7
SW	.4	2.4	2.0	3.9	.7	.1						9.6	10.3
WSW	.4	1.1	2.4	4.9	3.2	1.0	.3					13.4	14.1
W	.6	1.4	5.3	4.9	1.9	.8	.1					15.0	11.9
WNW	.9	.9	2.0	1.4								5.2	8.3
NW	.6	1.2	2.2	1.0	.4	.4						5.9	9.8
NNW	.2	1.4	2.7	1.3	.4	.1						6.2	9.7
VARIABLE													
CALM												3.2	
	9.2	18.2	31.8	26.6	8.0	2.6	.4					100.0	9.6

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755 MALMSTROM AFB MT 74-83 APD
STATION STATION NAME YEARS MONTH
ALL WEATHERED
CLASS
CONDITION
1800-2000
HOURS (LST)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.4	1.2	1.7	.2							5.4	8.2
NNE	.4	1.9	2.7	2.0								6.3	8.3
NE	.8	2.2	1.6	1.3	.3							6.1	8.1
ENE	.7	1.2	2.0	1.1	.1							5.1	7.9
E	1.6	1.7	.8	.2								4.2	5.1
ESE	.2	.3	1.4	.7	.6							2.8	10.8
SE	.9	.8	.9	.8								3.3	7.3
SSE	.2	1.1	.6	.2								2.1	6.6
S	1.6	3.2	1.1		.1							6.7	5.1
SSW	.2	2.2	2.3	.2	.3							5.3	7.3
SW	.4	4.7	2.8	1.8	.2							9.2	7.8
WSW	.2	1.3	3.3	6.4	1.1	.2	.1					12.3	11.7
W	.3	1.1	3.3	4.6	1.2	.7	.1					11.2	12.0
WNW	.3	1.4	1.2	1.4	.2		.1					3.9	9.1
NW	1.3	1.3	1.0	1.1	.2							5.7	7.4
NNW	.6	1.1	1.4	1.2								4.3	8.3
VARBL												7.2	
CALM													
	10.7	26.0	26.6	24.2	4.6	.4	.3					170.0	8.1

TOTAL NUMBER OF OBSERVATIONS 970

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEARS

APR
MONTH

ALL WEATHER
CLASS

2122-2370
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	.8	1.3	.8	.2							4.7	8.1
NNE	.7	1.1	1.8	1.0								4.6	7.6
NE	.8	1.6	2.4	1.0								5.8	7.6
ENE	.9	1.6	.6	.1	.1	.1						3.3	5.9
E	1.7	.8	.6									2.3	4.7
ESE	.4	.4	.1	.7								1.7	7.5
SE	.3	1.3	1.2	.8								3.7	7.7
SSE	1.2	1.6	2.2									5.0	5.8
S	1.7	4.9	3.3	.1	.1							10.1	5.8
SSW	.8	2.8	2.1	.1								5.3	6.1
SW	.8	6.4	7.9	1.8	.1							17.0	7.5
WSW	.4	2.7	4.4	3.8	.6							11.9	9.4
W	.2	1.8	2.8	2.0	.2	.3						7.3	9.7
WNW	.7	.8	1.6	.1	.4							3.6	8.1
NW	.4	.9	1.2	.4								3.0	7.1
NNW	1.7	.6	1.3	.8	.3							4.7	8.2
VARBL													
CALM												7.0	
	12.2	29.9	34.9	13.4	2.1	.4						100.0	7.0

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755 MARMSTROM AFB MT 74-83 300
STATION STATION NAME YEARS MONTH

ALL WEATHER

CLASS

ALL

HOURLS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.5	1.7	1.1	.2	.1						5.3	7.8
NNE	.8	1.5	1.6	.9	.1							4.9	7.4
NE	.8	1.5	1.3	1.4	.2	.4						4.9	7.9
ENE	.5	.8	.7	.4	.1	.4						2.6	7.2
E	.7	.8	.4	.1	.4							2.1	5.3
ESE	.4	.2	.3	.2	.1							1.2	7.1
SE	.5	.5	.6	.2	.4							1.9	6.6
SSE	.6	.4	.4	.1								2.1	5.5
S	1.3	2.5	1.3	.4	.1	.4						5.6	5.9
SSW	1.0	2.6	1.7	.9	.2	.4						6.4	7.1
SW	1.2	4.6	5.3	3.4	.8	.2	.4					15.5	8.8
WSW	.9	2.9	4.1	5.4	1.4	.5	.1	.4				14.9	10.7
W	.9	2.2	3.5	3.4	1.1	.3	.1					11.5	10.4
WNW	.6	1.7	1.4	.6	.2	.4	.4					3.8	8.4
NW	.7	1.1	1.3	.8	.2	.1						4.1	8.1
NNW	.6	1.1	1.4	1.1	.2	.4						4.4	8.6
VARBL													
CALM												8.4	
	12.7	25.8	27.1	19.8	4.7	1.3	.2	.0				100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 7200

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

MAY
MONTH

ALL WEATHER
CLAS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.4	1.4	.3	.2	.1						4.1	7.6
NNE	.5	1.4	1.1	.5	.2							3.9	7.3
NE	1.3	1.3	1.1	.4								4.1	5.8
ENE	.9	.2										1.1	2.8
E	1.1	.8	.1									1.9	3.7
ESE	.8	.8	.4	.2	.1							2.3	5.9
SE	.5	1.3	.4									2.3	5.1
SSE	.9	1.6	.3	.1								2.9	4.9
S	3.7	4.5	1.5	.1								9.1	4.6
SSW	1.9	5.3	1.4	.9								9.5	5.4
SW	1.4	6.7	5.1	1.9	.3							14.7	7.3
WSW	.5	5.2	4.8	2.8	.5	.1						14.7	8.3
W	.8	2.9	3.2	1.0	.3							8.2	7.7
WNW	.5	1.9	1.3	.6								4.4	6.6
NW	.5	.9	1.7	.8	.1							3.2	7.9
NNW	.5	1.1	.9	1.7	.1							3.5	7.9
VARBL													
CALM												11.3	
	15.8	36.5	24.0	10.6	1.9	.2						170.0	5.9

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

MAY
MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	1.4	1.3	.8	.1							3.8	8.1
NNE	1.1	1.4	1.7	.5	.2							4.9	7.2
NE	.6	1.3	.4	.4								2.8	5.9
ENE	.8	.1		.1								1.0	3.6
E	.4	.4	.2	.1								1.2	5.6
ESE	.5	.4	.1									1.1	3.7
SE	.2	.3		.1								.6	4.8
SSE	1.2	.9	.1									2.2	3.4
S	3.4	4.7	1.1	.1								8.6	4.4
SSW	1.9	4.8	2.6	.2								9.6	5.4
SW	2.7	6.1	6.8	1.6	1.7							17.5	7.4
WSW	2.7	5.6	5.5	2.5		.1						15.7	7.3
W	1.2	3.7	2.2	.6	.2							7.2	6.6
WNW	.6	1.6	1.1	.4	.1							3.9	6.9
NW	.3	1.7	.8	.3								2.4	6.7
NNW	.4	1.4	.8	.6	.5							4.7	9.1
VARBL													
CALM												13.7	
	17.1	33.8	24.5	8.7	2.2	.1						100.0	5.7

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

MAY
MONTH

ALL WEATHER
CLASS

2600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.5	1.7	2.4								6.1	8.6
NNE	.9	1.4	1.3	1.8	.2							5.6	8.5
NE	1.1	.9	.8	.3	.1							3.1	6.2
ENE	.5	.3	.1	.3								1.3	6.4
E	.4	.5										1.0	3.6
ESE	.6	.2	.1									1.0	3.1
SE	.5	.6	.1	.1								1.4	4.3
SSE	1.4	.4	.1									1.9	3.3
S	1.7	1.4	.3	.3								3.8	4.5
SSW	1.5	2.7	1.9	.4								5.9	5.9
SW	2.4	3.7	6.8	3.9	.9	.7						17.1	8.6
WSW	1.4	4.7	5.7	5.4	1.3							17.7	9.5
W	1.9	5.5	3.7	1.2								12.3	6.2
WNW	.5	1.4	.5	.3	.1							2.9	7.0
NW	1.2	.8	.3	.5	.4	.2						3.4	8.5
NNW	.2	.5	1.3	.6	.3							3.0	9.8
VARBL													
CALM												12.5	
	17.4	24.5	24.2	17.6	3.3	.4						100.7	6.7

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

727755
STATION

HALMSTROM AFB MT
STATION NAME

74-83
YEARS

MAY
MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	1.2	1.4	1.8		.1						6.2	7.8
NNE	1.1	1.4	1.9	1.7	.3		.1					6.6	9.0
NE	1.4	1.0	1.2	1.0	.2							4.3	8.0
ENE	.4	1.5	.7	1.4	.1	.1						3.2	8.4
E	1.7	1.0	.3	.1								3.1	4.1
ESE	.6	.9	.2									1.7	4.3
SE	.3	.7										.5	3.4
SSE	.1	.4	.1									.6	4.8
S	1.0	.8	.4	.2								2.4	5.2
SSW	.6	1.3	1.0	.4								3.3	6.4
SW	1.0	1.8	2.7	4.5	1.7	.3						12.0	11.0
WSW	.6	2.4	4.3	6.7	2.4	1.2						17.5	12.1
W	2.4	3.7	5.2	3.7	1.5	.3	.1					16.8	9.2
WNW	1.4	1.9	1.7	.5								5.1	5.9
NW	1.4	1.6	1.2	1.2	.2	.1						5.7	7.5
NNW	.9	1.3	1.6	.9	.1							4.7	7.6
VARBL													
CALM												6.3	
	15.9	22.3	22.9	23.7	6.6	2.2	.2					100.0	8.3

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

MAY
MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.7	1.7	1.3	.4	.1						6.5	8.3
NNE	.5	2.3	3.0	1.8	.9							8.5	9.2
NE	.5	1.8	2.2	1.8	.1							6.5	8.6
ENE	.4	2.7	1.1	1.1	.1							4.7	7.8
E	1.2	1.5	1.2	.8	.3							4.9	7.3
ESE	.2	.6	.4	.1								1.4	6.4
SE	.3	.5	.4	.1	.1							1.5	6.8
SSE	.3	.5	.2									1.1	4.8
S	.4	1.7	.9									2.2	5.8
SSW	.3	1.5	1.7	.9	.1							3.8	7.7
SW	.8	1.6	2.7	4.7	1.7	.3						10.4	11.4
WSW	.3	2.2	3.7	6.3	2.8	.6						15.3	12.4
W	1.1	1.8	4.2	3.8	2.4	1.2		.1				14.5	12.2
WNW	.4	1.6	2.2	1.0		.1						5.3	7.7
NW	.9	1.2	1.4	1.0	.2							4.6	7.9
NNW	.6	1.6	1.6	2.2	.2							6.2	8.8
VARBL													
CALM												2.7	
	9.6	23.5	26.3	26.0	9.4	2.4		.1				100.0	9.4

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727755 MALMSTROM AFB MT 74-83
STATION STATION NAME YEARS MONTHS
ALL WEATHER
CLASS
CONDITION
1500-1700
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.2	2.6	1.9	.2							8.1	7.9
NNE	1.1	1.7	3.1	2.8	.3							9.2	8.8
NE	1.7	2.0	2.5	1.3								6.8	7.2
ENE	.4	1.5	1.8	1.3	.3	.1						5.5	9.1
E	.5	2.0	1.9	.6	.3	.1						5.6	8.3
ESE	.4	.6	.4	.5	.6							3.0	9.9
SE	.3	.5	.1	.4	.1							1.5	7.6
SSE	.2	.4	.3	.4								1.4	7.5
S	.5	1.3	1.5	.6	.3							4.3	8.0
SSW	.5	.5	1.7	1.6		.1						4.5	9.4
SW	.4	1.4	1.4	3.2	.6	.1						7.6	10.7
WSW	.3	1.2	2.7	4.2	2.2	.3						10.2	12.6
W	.5	2.2	3.9	5.8	3.2	1.4						17.0	12.9
WNW	.5	.8	1.4	1.5	.5	.1						4.8	10.6
NW	.8	1.0	.9	1.7	.4							4.2	9.0
NNW	.3	.6	1.3	1.9	.1							4.3	10.0
VARBL													
CALM												2.4	
	9.1	20.4	27.2	29.2	9.4	2.3						100.0	9.8

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

MAY
MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.1	1.9	1.4	.2							5.5	8.5
NNE	.5	1.6	2.3	1.0								5.4	7.6
NE	1.2	2.5	2.2	1.6								7.4	7.2
ENE	.8	2.2	2.6	1.2								6.7	7.3
E	1.8	3.5	1.8	.9	.3							8.4	6.4
ESE	.5	.8	.4	.8	.7							2.7	8.5
SE	.2	.8	.6	.5								2.2	7.7
SSE	.4	.6	.4	.1								1.6	5.9
S	1.2	2.3	1.6	.8	.2							6.0	7.0
SSW	.9	2.4	1.2	.8								5.2	6.6
SW	.4	1.7	2.7	1.6	.1							6.6	8.4
WSW		1.4	1.5	2.8	1.1	.7						7.0	11.7
W	.2	1.1	3.9	5.3	1.6	.4						12.5	11.6
WNW	.3	.9	2.7	3.2	.5							7.0	10.8
NW	.5	1.8	1.8	1.4	.1							5.7	8.4
NNW		1.3	1.8	1.0	.2							4.3	8.8
VARBL													
CALM												6.0	
	10.0	25.8	28.7	24.2	4.6	.6						100.0	8.1

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

HALMSTROM AFB MT
STATION NAME

74-83
YEARS

MAY
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.6	1.1	.6	.2							4.5	7.1
NNE	.4	1.5	1.0	.6								3.5	7.2
NE	.5	1.4	.6	.6								3.2	6.8
ENE	1.0	1.8	1.3									4.1	5.3
E	.9	1.2	.3	.1								2.5	4.7
ESE	.6	.9	1.7	.3								2.8	6.5
SE	1.0	1.7	1.0	.5								4.2	5.9
SSE	1.4	2.4	1.6	.1								5.5	5.3
S	1.9	5.6	2.0									9.6	5.3
SSW	.8	4.6	1.5	.1								7.0	5.7
SW	.5	4.5	4.6	1.5		.1						11.3	7.6
WSW	.6	2.6	3.4	2.9	.1							9.7	8.8
W	.6	2.6	5.7	2.5	.3							11.7	8.7
WNW	.1	1.2	1.8	.5	.2	.1						4.7	8.8
NW	.2	1.3	2.0	.3	.2							4.1	7.8
NNW	.2	1.7	.9	.5		.1						2.7	8.1
VARBL													
CALM												9.7	
	11.8	35.8	29.9	11.4	1.1	.3						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

MAY
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.5	1.6	1.3	.2	.0						5.6	8.0
NNE	.8	1.6	1.9	1.4	.3		.0					5.9	8.3
NE	.9	1.5	1.4	.9	.1							4.8	7.2
ENE	.6	1.2	.9	.6	.1	.0						3.4	7.2
E	1.0	1.4	.7	.3	.1	.0						3.6	6.2
ESE	.6	.6	.4	.2	.1							2.0	6.8
SE	.4	.8	.3	.2	.0							1.8	6.0
SSE	.7	.9	.4	.1								2.2	4.9
S	1.7	2.6	1.2	.3	.1							5.7	5.4
SSW	1.1	2.8	1.5	.7	.0	.0						6.1	6.3
SW	1.1	3.3	4.0	2.8	.8	.1						12.2	8.8
WSW	.7	3.1	3.8	4.2	1.3	.3						13.4	10.2
W	1.1	2.8	4.0	3.0	1.2	.4	.0	.0				12.5	9.8
WNW	.6	1.4	1.4	1.0	.2	.0						4.7	8.3
NW	.7	1.2	1.2	.8	.2	.0						4.1	8.0
NNW	.4	1.1	1.3	1.1	.2	.0						4.1	8.8
VARBL													
CALM												8.0	
	13.3	27.8	26.0	18.9	4.8	1.1	.0	.0				100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755 MALMSTROM AFB MT 74-83 JUN
STATION STATION NAME YEARS MONTH
ALL WEATHER 0000-0200
CLASS HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.9	.2	.6								2.7	6.7
NNE	.7	.9	.9	.2								2.7	6.2
NE	.4	.6	.7	.3								2.7	6.7
ENE	.8	.4	.3									1.6	4.0
E	.4	.9	.1									1.3	4.0
ESE	.4	.6	.1									1.1	4.3
SE	1.0	.9	.6	.6								3.0	6.3
SSE	1.2	2.7	.2	.1								3.6	4.2
S	4.7	5.4	1.2	.1								11.1	4.5
SSW	3.1	5.6	2.8	.1								11.6	4.9
SW	2.7	7.7	6.6	1.6								18.5	6.4
WSW	1.7	3.4	4.8	2.3	.1							12.3	7.6
W	1.8	3.2	2.6	.7	.2	.1						8.6	6.6
WNW	.6	.9	.8	.2								2.4	6.5
NW	.2	1.7	.3	.4								2.0	6.6
NNW	.4	.6	.3	.4	.1							1.9	7.8
VARBL													
CALM												14.3	
	19.8	35.2	22.5	7.7	.4	.1						100.0	5.1

TOTAL NUMBER OF OBSERVATIONS 899

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

72755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

JUN
MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.0	.7									2.4	5.1
NNE	.6	.9	.2	.1								1.8	5.3
NE	.3	.8	.8	.2								2.1	6.8
ENE	.6	.2	.1									.9	3.0
E	.4	.3	.2									1.0	4.6
ESE	.6		.1									.7	3.3
SE	.7	.2										.9	2.4
SSE	.7	.7	.2									1.6	4.2
S	3.4	3.9	.7	.1								8.1	4.0
SSW	3.2	8.6	1.3	.2								13.3	4.6
SW	3.6	7.2	6.0	2.3	.1							19.2	6.5
WSW	2.2	6.4	5.0	2.7	.1							14.4	7.2
W	1.6	2.6	2.0	.8								6.7	6.1
WNW	.4	1.8	.4	.2	.1							3.0	6.1
NW	1.1	1.2	.4	.4								3.2	5.7
NNW	.4	.9	.2	.4	.1							2.1	7.6
VARBL													
CALM												16.3	
	20.6	36.7	18.4	7.6	.4							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

JUN
MONTH

ALL WEATHER?

CLASS

CONDITION

0600-0800
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.2	.4	.3								3.7	4.8
NNE	.9	1.6	.7	.4								3.6	5.6
NE	.6	.1	.3	.4								1.4	7.1
ENE	.9	.1	.3									1.3	4.2
E	.9	.3	.2									1.4	3.7
ESE	.1	.2										.3	3.7
SE	.9	.4										1.3	3.1
SSE	.7	.1	.4									1.2	4.5
S	2.1	1.2	.9									4.2	4.0
SSW	1.7	2.6	1.4	.4	.1							5.7	5.4
SW	3.0	5.0	4.6	4.4	.9	.1						18.3	8.2
WSW	2.7	5.4	4.8	6.4	1.3							20.7	8.9
W	2.9	3.4	3.6	2.2	.4	.1						12.7	7.4
WNW	1.0	1.7	.4	.2								3.3	5.1
NW	.9	.6	1.7	.2	.1							3.4	6.8
NNW	.9	1.0	.3	.3	.1							2.7	6.0
VARBL													
CALM												14.7	
	21.7	25.0	27.0	15.4	3.0	.2						100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 920

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

PALMSTROM AFB MT
STATION NAME

74-83
YEARS

JUN
MONTH

ALL WEATHER
CLASS

1997-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	1.8	1.1	.2	.1							5.2	5.4
NNE	1.6	1.9	1.1	.2								4.8	5.2
NE	1.8	1.8	1.2	.6								5.3	5.6
ENE	.9	2.3	1.7	.3								4.6	5.4
E	.6	1.4	.4									2.8	4.9
ESE	.7	.4	.2	.1								1.4	4.8
SE	.4	.3	.2									1.2	4.8
SSE	.3	.2	.1									.7	4.3
S	.6	.6	.2	.3								1.7	5.7
SSW	1.0	.9	1.1	.7								3.7	6.8
SW	1.4	2.4	1.9	4.7	.7	.3						11.4	9.9
WSW	1.2	3.2	4.2	7.4	2.4	1.2						19.6	11.6
W	1.9	5.4	4.4	4.9	1.3	.7						18.7	9.5
WNW	1.2	1.8	1.6	1.7	.2							5.8	7.3
NW	.8	1.0	.9	.4	.2							3.3	7.2
NNW	.8	1.3	.8	1.7	.1							4.0	7.8
VARBL													
CALM												6.4	
	17.1	26.9	27.6	21.9	5.1	2.7						100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

77755 MALMSTROM AFB MT 74-83
STATION STATION NAME YEARS
ALL WEATHER
CLASS
CONDITION
JULY
MONTH
1977-1980
YEARS (L & T)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.1	2.0	.7	.4	.1						5.1	6.5
NNE	1.1	1.0	1.4	.1	.2							3.9	6.5
NE	1.3	2.2	2.6	.8	.2							7.1	7.7
ENE	.7	2.1	.7	.4	.1							4.7	5.9
E	.6	2.2	1.8	.2								4.8	6.0
ESE	.3	.2	.1	.2	.1							1.0	8.0
SE	.4	.8	.2		.1							1.8	5.3
SSE	.6	.8	.1									1.4	4.0
S	.8	.6	.4	.4								2.2	6.0
SSW	1.4	.8	1.3	.8								4.3	6.6
SW	1.1	1.4	3.6	3.3	.6							10.0	9.5
WSW	1.1	1.7	3.4	5.8	1.1	1.3	.2					16.6	13.0
W	1.0	2.7	3.9	5.4	1.7	1.7						16.1	11.5
WNW	1.0	1.9	3.1	1.6	.1	.1						7.8	8.5
NW	.8	1.4	1.1	.8	.3							4.4	7.7
NNW	.8	1.4	1.1	.7	.1	.1						4.1	7.8
VARBL													
CALM												5.3	
	13.9	22.2	26.9	21.7	7.1	2.7	.2					100.0	8.6

TOTAL NUMBER OF OBSERVATIONS 970

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755 MALMSTROM AFB MT 74-83 JUN
STATION STATION NAME YEARS MONTH
ALL WEATHER
CLASS
CONDITION
1500-1700
HOURS (LST)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.8	1.2	1.7	.3							5.1	8.4
NNE	1.6	1.1	2.1	1.7	.1	.1						6.7	7.5
NE	.9	2.0	2.2	1.7	.2							6.7	7.8
ENE	.3	1.9	2.1	.4								4.7	7.1
E	1.7	2.6	2.7	.4	.2							6.2	6.7
ESE	.8	.9	1.3		.1							3.1	6.3
SE	.3	1.7	.8	.2		.1						2.4	7.2
SSE	.2	.4	.7									1.3	6.8
S	.7	1.3	.6	.4								3.2	6.2
SSW	1.2	.9	1.1	.2								3.4	5.6
SW	.8	1.2	2.3	2.3	.3	.2	.1					7.3	10.0
WSW	.6	1.4	3.7	6.0	2.0	.3	.1					13.4	12.2
W	.9	1.9	5.2	6.3	2.3	1.7	.3					18.7	12.3
WNW	.3	1.3	1.7	2.2	.3							6.3	9.3
NW	.6	.9	1.8	1.2	.3	.1						4.9	9.5
NNW	.8	.9	1.1	1.2	.3							4.3	8.6
VARBL													
CALM												3.7	
	11.9	21.4	29.2	24.7	6.7	1.9	.6					100.0	9.0

TOTAL NUMBER OF OBSERVATIONS 970

AD-A141 229

WALMSTROM AFB MONTANA REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBSERVAT. (U) AIR FORCE ENVIRONMENTAL
TECHNICAL APPLICATIONS CENTER SCOTT A. FEB 84
USAFETAC/DS-84/007 S81-AD-E850 615 F/G 4/2

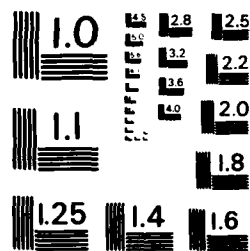
216

UNCLASSIFIED

USAFETAC/DS-84/007 SBI-AD-E850 815

F/G 4/2

NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS - 1963-A

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ATP WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

727756
STATION

HALMSTROM AFB MT
STATION NAME

74-83
YEARS

JUN
MONTH

ALL WEATHERED

1900-2000
PERIOD (L.S.T.)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 36	%	MEAN WIND SPEED
N	.4	.9	1.4	1.1	.1							3.9	8.9
NNE	1.0	1.9	2.4	1.4	.2							7.7	7.8
NE	.6	1.3	2.9	.7								5.3	7.3
ENE	.8	2.9	2.7	.8								7.1	6.7
E	1.8	2.6	1.3	.4								6.1	5.4
ESE	1.7	1.9	.7	.4	.1							4.1	6.0
SE	.6	.8	1.4	.1								2.4	6.0
SSE	.4	.8	1.0	.2								2.4	6.3
S	1.8	2.3	.6	.2								5.2	5.0
SSW	.7	1.4	.8		.1							3.0	5.7
SW	.9	2.6	3.6	1.3								7.3	7.5
WSW	.2	.4	2.3	2.3	.7		.1					6.4	11.0
W	.7	3.0	6.2	4.8	1.3	.4	.1					16.6	10.3
WNW	.6	1.2	2.7	1.4	.3							6.2	9.2
NW	.7	2.2	1.4	1.9	.2							6.4	8.6
NNW	.2	.8	1.1	.4	.2	.1						2.9	9.1
VARBL													
CALM												7.4	
	12.2	27.2	31.3	17.7	3.3	.6	.2					100.0	7.4

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755 STATION MALMSTROM AFB MT 74-83 YEARS JUN MONTH
STATION NAME ALL WEATHERED CLASS 2100-2320 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.3	1.7	.6	.1							4.3	7.4
NNE	.9	1.7	1.7	.2								4.4	6.2
NE	1.1	1.3	1.1	.3	.1							4.7	6.5
ENE	1.7	.7	.4									2.8	4.0
E	1.2	.8	.2	.1								2.3	3.8
ESE	.6	1.1	.2	.2								2.1	5.3
SE	1.8	.7	.8	.2								3.4	4.7
SSE	.9	2.7	1.2	.3								5.1	5.5
S	2.1	5.7	1.1	.4								9.3	4.9
SSW	1.7	5.1	1.6									8.3	5.0
SW	1.2	5.4	4.4	.9								12.0	6.5
WSW	.7	3.7	3.7	2.8	.1							10.2	8.1
W	.6	2.9	3.7	1.6	.6							9.2	8.4
WNW	.4	1.3	1.6	.7		.1						4.1	8.0
NW	.8	.9	.9	.6								3.1	6.4
NNW		.1	.9	.8	.1							1.9	11.2
VARBL													
CALM												13.2	
	16.2	35.3	24.4	9.7	1.0	.1						100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727755
STATION

HALMSTROM AFB MT
STATION NAME

74-83
YEARS

JUN
MONTH

ALL WEATHER
CLASS

ALL
NUMBER (L & T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.2	1.1	.6	.1	.0						4.7	7.1
NNE	1.3	1.4	1.3	.5	.1	.0						4.3	6.5
NE	.9	1.3	1.5	.6	.1							4.3	6.9
ENE	.8	1.3	1.6	.3	.0							3.4	5.7
E	.9	1.4	.8	.2	.0							3.2	5.4
ESE	.6	.7	.3	.1	.0							1.7	5.7
SE	.8	.6	.4	.1	.0	.0						2.0	5.3
SSE	.6	1.7	.5	.1								2.2	5.1
S	1.0	2.7	.8	.3								5.6	4.7
SSW	1.8	3.2	1.4	.3	.0							6.7	5.3
SW	1.8	4.1	4.0	2.6	.3	.1	.0					13.0	7.8
WSW	1.3	3.3	3.8	4.5	1.2	.3	.1					14.5	10.0
W	1.4	3.1	3.9	3.4	1.0	.4	.1					13.3	9.6
WNW	.8	1.5	1.5	.9	.1	.0						4.9	7.9
NW	.7	1.2	1.1	.8	.2	.0						3.9	7.6
NNW	.5	.9	.7	.7	.2	.0						3.7	8.2
VARBL													
CALM												10.2	
	16.7	28.7	24.2	15.8	3.4	.9	.1					100.0	6.8

TOTAL NUMBER OF OBSERVATIONS

7199

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

JUL
MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.3	.2		.2							2.8	4.9
NNE	.6	1.3	.9	.2	.1							3.1	6.2
NE	1.2	1.3	.1	.1								2.7	4.0
ENE	1.0	.2	.2	.1								1.5	3.9
E	1.3	.9	.1	.1								2.4	3.5
ESE	.6	.6	.2									1.5	4.1
SE	1.1	1.7	.3									2.4	4.0
SSE	1.7	3.7	.4	.1								4.5	4.7
S	3.9	7.5	2.7	.1								13.5	4.6
SSW	2.8	8.5	1.4	.7								12.9	4.8
SW	2.7	6.3	5.2	1.0								14.5	6.2
WSW	1.7	4.1	2.5	1.1	.1							9.5	6.5
W	.8	2.3	1.7	.4	.1							4.5	6.4
WNW	1.7	.3	.5	.1		.1						2.0	6.0
NW	.5	.5	.4	.2								1.7	5.8
NNW	.6	.9	.2	.1								1.8	4.8
VARBL													
CALM												18.6	
	21.2	40.0	15.7	3.9	.5	.1						100.0	4.3

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

JUL
MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.4	.5									2.8	4.7
NNE	.4	.5	.4	.3								1.7	6.4
NE	.2		.1									.3	4.7
ENE	.2	.2	.1									.5	4.6
E	.6	.1										.8	2.6
ESE	.8	.6										1.4	3.5
SE	.5	.9	.1									1.5	3.7
SSE	.9	.9										1.7	3.7
S	4.7	4.8	1.4									10.5	4.0
SSW	4.1	7.1	1.0	.3								13.3	4.8
SW	4.4	10.4	4.9	1.4								21.2	5.6
WSW	2.8	6.1	3.1	1.0								13.0	5.5
W	1.6	4.6	1.5	.3								8.1	5.3
WNW	.1	.8	.5	.2								1.6	6.7
NW	.2	.2										.4	3.8
NNW	.6	.9		.2								1.7	4.9
VARBL													
CALM												19.4	
	23.1	39.5	14.3	3.8								100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

JUL
MONTH

ALL WEATHER
CLASS

0600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	1.5	.4	.3									2.3	3.3
NNE	.6	.6	.5	.1								1.9	5.6
NE	.3	.3	1.2	.1								1.9	6.8
ENE	.5	.6	.1									1.3	3.8
E	.9	.3										1.2	3.1
ESE	.1	.2										.3	4.3
SE	.6	.1		.1								.9	3.9
SSE	.6	.9	.1									1.6	3.7
S	2.7	2.7	.4	.1								4.6	4.1
SSW	2.4	2.9	.8	1.2								7.2	5.5
SW	4.2	5.1	5.6	2.7	.1							17.6	6.8
WSW	2.5	5.4	4.3	3.9	1.2							17.2	8.3
W	4.7	4.0	3.7	.5	.1							11.6	5.5
WNW	1.9	1.4	1.1			.1						4.5	4.7
NW	1.3	1.1	.8	.2								3.3	5.1
NNW	.8	1.7	.6									2.4	4.6
VARBL													
CALM												70.1	
	24.3	26.3	18.8	8.9	1.4	.1						100.0	4.8

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

JUL
MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.2	2.7	.4	.2								4.8	4.2
NNE	2.2	1.6	.9	.1								4.7	4.3
NE	1.2	2.2	.9	.1								4.3	5.1
ENE	1.2	1.4	.4	.1								3.1	4.7
E	1.1	1.6	.5									3.2	4.2
ESE	.2	.9	.2									1.3	4.8
SE	.4	.5										1.0	3.4
SSE	.5	.3										.9	3.3
S	1.0	.4	.3	.1								1.8	4.6
SSW	.4	.5	.9	.8								2.9	7.5
SW	1.1	2.3	2.5	4.0	.9	.3						11.0	10.0
WSW	1.7	1.5	5.2	5.6	2.2	.1						16.2	10.9
W	2.9	7.1	8.3	4.0	.8							22.9	7.8
WNW	1.6	2.6	1.7	.2								6.1	5.4
NW	2.3	2.2	.9	.5								5.8	5.1
NNW	1.3	.9	.5									2.7	4.0
VARBL													
CALM												7.2	
	21.5	27.8	23.5	15.7	7.8	.4						100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

JUL
MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.2	2.0	.4	.1							6.5	6.0
NNE	1.1	2.9	1.7	.1								5.8	5.7
NE	.9	3.7	2.4	.3								7.2	6.1
ENE	1.2	1.2	1.5	.2	.1							4.2	6.4
E	1.6	2.4	.8	.2								4.9	4.8
ESE	.6	.9	.1	.2								1.8	5.1
SE	.3	.4	.3	.3								1.4	6.9
SSE	.1	.2	.1									.4	5.7
S	1.7	1.4	.4	.1								2.9	4.6
SSW	.6	.8	1.0	.9								3.2	7.6
SW	1.1	1.6	3.3	2.3	.3	.5	.1					9.2	9.8
WSW	.8	1.1	4.3	4.4	2.8	.1						13.4	12.0
W	2.3	5.2	5.8	6.7	1.6	.2	.1					21.8	9.6
WNW	1.3	1.4	1.5	1.0	.1							5.7	7.0
NW	1.3	2.2	.6	.5								4.6	5.8
NNW	.5	1.7	.8	.5		.1						3.7	6.7
VARBL													
CALM												3.1	
	16.3	29.5	26.7	18.2	5.1	1.0	.2					170.0	7.8

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

JUL
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.0	1.4	.8	.3							5.2	7.4
NNE	1.6	2.5	2.9	1.0		.1						8.7	6.8
NE	1.3	3.5	2.8	1.0	.1							8.7	6.8
ENE	.8	1.8	1.4	1.1	.1							5.2	7.4
E	1.3	2.2	1.9									5.4	5.7
ESE	.6	.9	.4	.3								2.3	5.9
SE	.1	.8	.8	.3								1.9	7.3
SSE	.4	.6		.2	.1							1.4	6.0
S	1.1	1.6	.2	1.2	.1							4.2	7.1
SSW	1.7	1.2	.5				.1					2.8	5.5
SW	1.7	2.2	2.4	1.9	.3	.1						7.8	8.9
WSW	.8	1.8	3.8	4.4	1.1	.4						12.3	11.1
W	1.7	2.3	3.8	6.5	2.4	.4						16.2	11.7
WNW	1.2	1.3	2.5	2.2	.8	.1						8.7	9.5
NW	.5	1.7	1.4	1.2								4.1	8.2
NNW	.5	1.4	.8	.6		.1						3.4	7.2
VARBL													
CALM												3.2	
	13.8	27.7	26.8	22.6	5.3	1.3	.1					100.0	8.3

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

JUL
MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	2.6	2.2	1.1	.1							7.3	7.0
NNE	1.4	2.8	2.3	1.5	.1							8.1	7.1
NE	1.1	2.9	1.6	1.2								6.8	6.7
ENE	1.8	2.9	2.9	1.1								9.7	6.4
E	1.6	2.2	2.8	.5								7.1	6.3
ESE	1.1	.9	1.1	.1								3.1	5.2
SE	1.4	1.5	.6	.1	.1							3.8	5.0
SSE	1.1	.9	1.1	.7								3.2	5.7
S	.5	1.7	1.1	.1								3.4	5.8
SSW	1.4	1.1	.8	.1	.1							3.4	5.4
SW	1.2	1.6	2.4	1.1				.1				6.3	7.8
WSW	.5	.5	1.4	2.2	.5	.2	.1					5.5	11.7
W	.5	2.2	3.7	4.4	.6							11.4	10.1
WNW	.4	1.0	2.7	2.4	.4	.1						7.7	10.4
NW	.5	1.3	1.6	1.8	.1							5.4	8.8
NNW	.8	.5	1.4	.4	.1	.1						3.3	7.9
VARBL													
CALM												6.1	
	16.8	26.5	29.5	18.3	2.3	.4	.1	.1				170.0	7.2

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

77755 STATION MALMSTROM AFB MT 74-87 YEARS JUL MONTH 2100-2300 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.3	.8	.4								5.2	5.5
NNE	1.2	2.3	1.5	.4	.2							5.6	6.2
NE	1.7	1.4	1.3	.6								4.3	6.2
ENE	2.2	1.4	.3									3.9	3.7
E	2.3	.9	.5	.1								3.8	4.0
ESE	.5	1.2	.4									2.2	4.7
SE	1.5	2.4	.8	.2								4.9	4.8
SSE	1.3	3.7	.6	.1								5.7	4.8
S	3.1	6.7	2.4									12.2	4.8
SSW	1.6	4.2	1.2	.3								7.3	5.3
SW	1.6	4.3	4.7	1.1	.2	.1						11.3	6.9
WSW	.8	1.7	2.3	1.2								5.9	7.8
W	.6	2.3	1.7	1.5	.2							6.3	8.0
WNW	.3	1.2	.3	.1								1.9	5.8
NW	1.2	1.1	.7									2.5	4.7
NNW	.3	1.3	.9	.3								2.8	6.3
VARBL													
CALM												13.9	
	21.2	38.6	18.9	6.7	.6	.1						170.0	5.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 727755 MALMSTROM AFB MT STATION NAME YEARS 75-81 MONTH JULY
CLASS ALL WEATHERED
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	1.8	1.7	.4	.1							4.6	5.7
NNE	1.1	1.9	1.4	.5	.1	.7						4.7	6.2
NE	.9	2.7	1.3	.4	.7							4.6	6.2
ENE	1.1	1.2	.9	.3	.7							3.5	5.7
E	1.3	1.3	.8	.1								3.5	4.9
ESE	.6	.8	.3	.1								1.7	4.9
SE	.8	.9	.4	.1	.7							2.2	5.7
SSE	.7	1.3	.3	.1	.7							2.4	4.8
S	2.2	3.3	1.7	.7	.7							6.7	4.8
SSW	1.8	3.3	1.7	.5	.7		.7					6.6	5.4
SW	2.1	4.2	3.8	1.9	.7	.1	.7	.7				12.4	7.3
WSW	1.4	2.8	3.3	3.7	1.7	.1	.7					11.6	9.2
W	1.7	3.7	3.6	3.0	.7	.1	.7					12.9	8.5
WNW	1.7	1.3	1.4	.8	.2	.1						4.5	7.5
NW	1.7	1.2	.7	.6	.7							3.5	6.4
NNW	.7	1.1	.6	.3	.7	.7						2.7	6.1
VARBL													
CALM												11.5	
	19.8	31.9	21.8	12.2	2.4	.4	.1	.0				100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 7487

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

AUG
MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.8	.9	.3								2.5	6.7
NNE	1.1	1.6	1.1	.4	.1							4.3	6.2
NE	1.3	.8	.5	.6								3.2	6.0
ENE	.4	.3	.1									.9	3.4
E	.6	.6	.5	.1								1.9	5.3
ESE	.9	.3	.3									1.4	3.9
SE	1.1	.9	.5	.1								2.6	4.8
SSE	1.2	2.7	.4									4.3	4.5
S	4.7	4.4	1.6	.2								10.6	4.5
SSW	2.6	6.5	2.5	.1								11.6	5.0
SW	2.5	7.7	3.3	1.5		.1						14.6	6.2
WSW	1.4	5.8	2.7	.6	.1	.1						10.9	6.0
W	1.9	2.2	1.7	.6								6.5	6.0
WNW	.8	1.7	.4	.1								2.3	4.9
NW	1.7	.8	.4	.1								2.3	4.5
NNW	.4	.4	.4	.3								1.9	6.4
VARBL													
CALM												18.4	
	21.5	36.9	17.5	5.3	.2	.2						100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

AUG
MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.2	.6	.6								3.1	6.4
NNE	.9	.9	.5	.3								2.6	5.5
NE	.5	1.1	.3	.1								2.0	5.0
ENE	.8	.5	.1									1.4	3.6
E	.3	.2										.5	3.4
ESE	.8	.5										1.3	3.2
SE	1.1	.5	.3	.1								2.0	4.3
SSE	2.4	.9		.1								3.3	3.0
S	4.3	3.4	.6									8.4	3.5
SSW	3.5	6.0	.8	.2								11.4	4.4
SW	4.4	8.5	5.4	1.6	.1							20.0	6.0
WSW	2.9	5.4	2.9	.3								11.5	5.4
W	2.2	3.9	1.4	.3								7.7	4.9
WNW	.5	1.1	.3	.1								2.0	5.4
NW	.5	1.6	.5	.3								3.0	5.9
NNW	.8	.5	.4									1.7	4.6
VARBL													
CALM												17.8	
	26.5	37.1	14.3	4.2	.1							100.0	4.1

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755 MALMSTROM AFB MT 74-P3 AUG
STATION STATION NAME YEARS MONTH

ALL WEATHER 0600-0800
CLASS HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.3	.8	.3	.2	.1							3.7	4.1
NNE	1.0	1.5	.5	.1								3.1	5.0
NE	1.1	.8	.3	.1								2.3	4.2
ENE	.3	.3	.2									.9	4.6
E	1.2	.4										1.6	2.7
ESE	.8	.3		.1								1.2	3.4
SE	.4	.6	.1	.2								1.4	5.2
SSE	.5	.4	.1	.1								1.2	4.7
S	3.7	2.5	.5	.1								6.1	3.8
SSW	3.7	3.2	1.7	.4		.1						9.1	5.1
SW	4.5	5.6	3.5	2.0	.4							16.1	6.4
WSW	3.5	5.4	3.7	1.4	.8	.2						14.3	6.7
W	4.1	5.2	1.6	1.1								11.9	5.0
WNW	1.5	1.4	.4	.1								3.4	4.3
NW	1.3	1.5		.3	.1							3.2	4.9
NNW	1.0	.4	1.0	.1								2.5	5.4
VARBL													
CALM												18.0	
	30.1	30.3	13.4	6.5	1.4	.3						100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

HALMSTROM AFB MT
STATION NAME

74-83
YEARS

AUG
MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.9	2.7	1.0	.3	.1							6.3	4.7
NNE	2.0	2.2	1.0	.4								5.6	5.3
NE	1.4	1.0	.8	.3	.1							3.5	5.6
ENE	1.7	1.2	.2									2.4	3.9
E	1.4	1.4	.2	.1								3.1	4.1
ESE	.5	.5		.2								1.3	4.8
SE	.6	.6	.2									1.5	4.0
SSE	.4		.2									.6	4.0
S	.9	.6	.1	.2	.1							1.9	5.7
SSW	.8	.9	.3	.5								2.5	6.6
SW	1.2	1.4	2.9	2.8	1.0	.2						9.5	10.0
WSW	2.9	3.4	4.3	3.9	2.6	.9	.1					17.8	10.2
W	4.5	7.0	4.4	3.1	.5	.2						19.8	6.8
WNW	1.9	2.5	1.4	.4	.2							6.5	6.0
NW	2.0	1.1	1.4	.3	.1							4.9	5.6
NNW	1.4	1.2	1.4									4.0	5.3
VARBL													
CALM												8.7	
	25.8	27.0	19.8	12.7	4.7	1.2	.1					100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 937

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

AUG
MONTH

ALL WEATHER
CLASS

1990-1990
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.5	3.7	2.7	.5								9.7	5.5
NNE	1.7	4.1	2.7	.9								9.4	6.4
NE	1.2	3.5	2.2	.1	.1							7.1	5.9
ENE	.9	1.4	.5	.2								3.7	5.5
E	.8	.8	.6									2.2	4.7
ESE	.8	1.7	.2									1.9	3.9
SE	.4	.5	.2	.2								1.4	5.7
SSE	.2	.2										.4	3.5
S	.5	1.7	.4	.2								2.2	5.6
SSW	.3	1.7	.2	.3								1.8	5.9
SW	1.4	2.7	1.5	3.1	1.3	.2						9.6	10.2
WSW	1.4	2.7	3.7	4.1	2.7	.6						13.9	10.8
W	2.4	4.6	4.7	4.3	1.1	.4	.1					17.6	9.0
WNW	1.7	2.7	1.3	1.4	.1	.2						7.4	7.1
NW	1.3	1.9	1.7	.4								5.4	6.7
NNW	1.2	1.1	1.3	.3								3.9	6.0
VARBL													
CALM												4.2	
	18.6	31.5	23.3	16.1	4.6	1.5	.1					170.0	7.3

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727755 MALMSTROM AFB MT 74-83 AUG
STATION STATION NAME YEARS MONTHS
ALL WEATHER
CLASS
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.9	2.3	1.2		.1						6.7	7.2
NNE	1.5	3.2	3.4	1.0	.6							9.8	7.5
NE	1.3	2.6	4.7	1.4								9.2	7.3
ENE	.3	.9	1.9	1.0								4.1	8.3
E	1.5	2.3	1.4	.1								5.3	5.1
ESE	.8	.2	.6	.1	.2							1.9	6.9
SE	.4		.3		.1							.9	6.6
SSE		.1	.3		.1							.5	9.6
S	1.1	.3	.6	.3								2.4	5.9
SSW	.6	1.1	1.1	.3	.2							3.3	7.4
SW	1.1	1.5	2.4	2.2	.5	.2	.1					8.0	9.7
WSW	1.2	1.3	2.4	3.3	1.2	.2						9.6	10.4
W	1.2	2.8	5.2	7.1	1.4	.6						18.3	10.9
WNW	.9	2.0	1.5	1.0	.3							5.7	7.6
NW	.8	1.7	1.4	.9	.2							4.9	7.5
NNW	1.2	1.5	1.1	.3	.1							4.2	6.1
VARBL													
CALM												5.3	
	14.9	23.4	29.9	20.1	5.1	1.2	.1					100.0	8.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

AUG
MONTH

ALL WEATHER

1900-2000
YEARS (L.S.T.)

CLAS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.5	2.0	1.1	.3							6.2	7.8
NNE	.3	2.0	3.0	1.9	.1	.1						8.4	8.1
NE	.9	2.7	3.7	1.8	.1							9.1	7.9
ENE	1.7	3.4	2.4	1.1								8.3	6.3
E	2.8	3.1	1.5	.2								7.6	4.6
ESE	.4	.4	.8	.8	.1							2.8	7.6
SE	.9	1.2	1.1	.6			.1					3.9	7.2
SSE	.3	.3	.5									1.2	6.0
S	1.2	1.2	.6	.4								3.7	5.8
SSW	1.1	1.6	.6	.6	.1							4.1	6.4
SW	.8	2.3	2.9	1.7	.2	.1			.1			8.1	9.0
WSW	.6	1.7	1.5	1.8	.3							6.0	8.9
W	1.2	2.9	3.9	3.2	.4	.2						11.7	9.2
WNW	.3	1.6	1.8	1.6								4.7	7.7
NW	.6	1.4	1.7	.5								3.5	6.7
NNW	.5	1.4	.9	.5								2.9	6.9
VARBL													
CALM												7.7	
	15.3	29.1	28.1	17.4	1.7	.4	.1		.1			100.0	6.9

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

HALMSTROM AFB MT
STATION NAME

74-83
YEARS

AUG
MONTH

ALL WEATHERED
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.7	.9	.3	.3							4.4	6.8
NNE	.8	2.5	1.8	.9	.4							6.3	7.7
NE	1.2	2.7	1.4	.2	.1							5.6	5.5
ENE	1.9	1.3	.3									3.5	3.7
E	2.3	1.1	.5									3.9	3.6
ESE	1.1	1.1	.4									2.6	4.3
SE	2.7	1.7	.9									5.3	4.1
SSE	1.4	2.4	.9	.4								5.1	5.3
S	2.8	5.9	1.7	.2	.1							10.8	4.9
SSW	2.3	4.3	1.7	.1								8.4	5.2
SW	1.6	3.9	2.7	.9	.2							7.2	6.6
WSW	.8	3.2	2.7	.9	.2							7.1	7.2
W	1.7	3.1	1.5	.5								6.1	6.2
WNW	.1	.6	1.5	.2								2.5	7.6
NW	.8	1.2	.3	.1	.1							2.5	5.5
NNW	.8	.6	.4		.1							1.9	5.6
VARBL													
CALM												14.8	
	22.3	37.6	18.9	4.7	1.6							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

AUG
MONTH

ALL WEATHER

CLASS

ALL
MOONS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	1.7	1.3	.6	.1	.0						5.2	6.2
NNE	1.2	2.4	1.8	.7	.2	.0						6.2	6.8
NE	1.1	1.9	1.6	.6	.1							5.3	6.4
ENE	.9	1.2	.7	.3								3.1	5.6
E	1.4	1.2	.6	.1								3.3	4.4
ESE	.8	.6	.3	.1	.0							1.8	5.1
SE	1.0	.8	.5	.2	.0		.0					2.4	5.1
SSE	.8	.4	.3	.1	.0							2.1	4.7
S	2.2	2.5	.8	.2	.0							5.8	4.6
SSW	1.9	3.7	1.1	.3	.0	.0						6.5	5.3
SW	2.2	4.7	3.1	2.0	.5	.1	.0		.0			11.9	7.5
WSW	1.8	3.6	2.7	2.0	.9	.2	.0					11.4	8.3
W	2.3	3.9	3.1	2.5	.4	.2	.0					12.5	7.8
WNW	1.7	1.6	1.1	.5	.1	.0						4.3	6.5
NW	1.0	1.4	.8	.4	.1							3.7	6.0
NNW	.9	.9	.9	.2	.0							2.9	5.8
VARBL													
CALM												11.9	
	21.9	31.6	27.7	10.9	2.4	.6	.1		.0			170.0	5.8

TOTAL NUMBER OF OBSERVATIONS

7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

79-83
YEARS

SEP
MONTH

ALL WEATHER
CLASS

3000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.7	1.2	.1	.1							3.6	6.6
NNE	.4	1.7	1.1	.4								3.7	6.5
NE	.4	.7	.3									1.4	5.1
ENE	.7	.4	.1	.1								1.3	3.9
E	.8	.2	.1									1.1	3.3
ESE	.3	.4	.1	.1								1.0	5.1
SE	.8	.8	.2									1.9	3.9
SSE	1.3	1.7	.3	.3								3.7	4.8
S	2.7	5.3	1.8	.2								10.0	4.9
SSW	3.9	7.9	2.1	.2								14.0	4.7
SW	2.8	8.9	7.9	1.6	.1							21.2	6.4
WSW	1.3	5.6	4.4	.9								12.6	6.6
W	1.2	3.1	2.1	.3	.1							6.9	6.1
WNW	.9	.3	.9									2.1	5.2
NW	.3	.7	.4	.1	.3							1.9	8.1
NNW	.3	.1		.7								1.1	8.9
VARBL													
CALM												12.7	
	18.6	39.4	23.6	5.1	.7							100.0	5.1

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

SEP
MONTH

ALL WEATHER

CLASS

0100-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.2	1.2	.7								3.7	7.3
NNE	.7	1.0	.7	.3								2.7	5.8
NE	.4	1.2	.1	.1								1.9	4.9
ENE	.4			.7								.7	5.7
E	.4	.2	.1									.8	3.9
ESE	.1	.2										.3	3.3
SE	.2	.1										.3	2.3
SSE	.7	.6	.2									1.4	3.6
S	3.7	3.1	.7									6.8	4.1
SSW	3.3	5.4	2.3	.3								11.4	5.1
SW	2.7	10.0	7.2	2.2								22.2	6.5
WSW	3.3	7.3	4.7	1.4	.1							16.9	6.2
W	2.2	3.7	1.3	.7								7.9	5.1
WNW	.7	1.2	.8	.2								2.9	5.6
NW	.8	.7	.8	.6	.1							2.9	7.1
NNW	.4	.6	.4	.6								2.0	7.7
VARBL													
CALM												15.2	
	27.7	36.6	20.6	7.4	.2							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS

920

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-82
YEARS

SEP
MONTH

ALL WEATHER
CLAR

0600-2400
GROUP (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.4	1.1	.3								2.4	6.7
NNE	1.2	1.3	.6	.2								3.3	5.1
NE	.4	.7	.3	.1								1.6	5.3
ENE	.2	.2	.2									.7	6.5
E	.7											.7	2.5
ESE	.7											.7	2.3
SE	.4	.3										.4	3.1
SSE	.6	.2	.1									.9	3.5
S	2.3	1.3	.1									3.8	3.1
SSW	2.7	3.7	1.6	.4								7.7	5.1
SW	3.4	7.6	8.1	3.4	.7	.3						23.6	7.6
WSW	2.7	5.6	4.2	1.8	.4	.2						14.9	7.2
W	3.1	5.7	2.7	.7								11.4	5.5
WNW	1.4	1.2	1.3	.1	.1							4.2	5.7
NW	.8	.8	.4	.2	.1							2.3	5.7
NNW	.4	.4	.8	.6	.1							2.3	8.6
VARBL													
CALM												18.8	
	21.7	28.1	21.3	8.1	1.4	.6						100.0	5.1

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755 MALMSTROM AFB MT 74-87 SEP
STATION STATION NAME YEARS MONTH
ALL WEATHER
CLAS
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	1.3	.8	1.7	.1							4.3	6.5
NNE	2.7	1.6	.4	.2	.1							4.3	4.9
NE	1.6	.6	.6	.3								3.7	5.7
ENE	.7	.6										1.2	3.4
E	.8	.4										1.2	2.9
ESE	.3	.4	.1									.9	4.3
SE	.2	.3	.2									.8	5.1
SSE	.1	.6										.7	4.5
S	.6	.3										.9	3.3
SSW	1.1	1.6	.9	.7	.1							4.3	6.8
SW	1.2	2.3	4.2	7.1	2.2	.4	.1	.1				17.8	11.4
WSW	1.0	2.9	5.2	8.3	1.7	1.4						20.6	11.6
W	5.7	5.8	5.3	3.1		.1						19.3	6.7
WNW	2.3	1.7	.7	.6								5.2	5.7
NW	1.3	1.7	.9	.6								4.4	5.8
NNW	.8	.6	1.1	.7	.2							3.3	8.0
VARBL													
CALM												7.2	
	20.6	22.6	27.4	22.6	4.8	2.7	.1	.1				100.0	7.7

TOTAL NUMBER OF OBSERVATIONS 970

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755 STATION MALMSTROM AFB MT 70-93 YEARS SEP MONTHS 1200-1900 HOURS (LST)
ALL WEATHER CLASS
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.3	1.8	1.8	.6	.2	.1						6.3	6.7
NNE	1.6	2.4	1.2	.0								6.1	6.7
NE	1.7	2.2	1.3	.4								5.7	5.9
ENE	1.7	1.6	.3									2.0	4.2
E	1.7	.0	.1									2.6	3.6
ESE	.7	.3										.6	4.4
SE	.7	.2										.4	3.5
SSE	.7	.1										.7	2.3
S	.4	.4	.4	.4	.1							1.9	7.9
SSW	.4	.8	.8	1.4	.2	.1						3.8	9.6
SW	.9	1.8	3.3	5.2	1.7	1.1						17.3	11.7
WSW	.7	3.2	5.7	7.3	2.6	.8		.1				19.7	11.9
W	2.9	4.0	6.7	5.7	1.7	.7						19.8	9.8
WNW	1.2	1.7	1.9	1.0	.1							5.2	7.5
NW	.6	1.6	1.1	.9	.7	.1						4.4	6.7
NNW	1.1	1.6	.7	.8	.4							4.6	7.7
VARBL													
CALM												2.7	
	16.4	23.4	24.7	24.0	5.0	2.4		.1				17.0	8.6

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

SEP
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	.9	1.8	1.1								4.7	7.7
NNE	1.9	2.1	2.6	1.6	.2							8.3	7.2
NE	1.4	3.2	3.3	.8								8.8	6.7
ENE	1.3	2.2	1.6	.8								5.9	6.3
E	.4	1.1		.1								1.7	4.6
ESE	.3	.1	.1									.6	3.4
SE	.2	.1										.1	3.3
SSE	.1	.3	.1	.1								.7	6.8
S	.2	.6	.9	.3								2.7	7.7
SSW	.7	1.1	1.2	1.0	.1							4.1	8.1
SW	.9	1.2	3.8	4.9	.6	.3						11.7	10.2
WSW	.8	1.7	3.3	4.9	1.4	.7	.7					13.0	11.9
W	1.6	2.9	5.3	5.4	1.6	.9						17.7	10.6
WNW	1.3	1.6	1.1	1.0	.6							6.4	8.7
NW	.9	1.4	1.7	1.0	.1							5.1	7.5
NNW	.9	1.1	2.0	.6	.1	.1						4.8	7.7
VARBL													
CALM												4.3	
	13.9	21.7	28.8	24.4	4.7	2.7	.2					100.2	8.5

TOTAL NUMBER OF OBSERVATIONS 970

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

WALMSTROM AFB MT
STATION NAME

74-83
YEARS

SEP
MONTH

ALL WEATHER
CLASS

1997-2000
YEARS (L & T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.9	.8	.9								4.4	6.5
NNE	1.4	2.7	2.7	1.4	.3	.1						9.7	7.6
NE	2.4	4.7	1.4	1.3								9.2	6.0
ENE	2.6	2.1	1.3	.7								6.2	4.9
E	.9	.9										1.8	3.5
ESE	.6	.9	.1	.2								1.8	5.5
SE	.7	.8	.6									2.0	5.1
SSE	.4	.7	.3		.1							1.6	5.9
S	1.8	2.3	1.2			.1						5.4	5.2
SSW	.8	3.3	1.3	.2	.2							5.9	6.1
SW	1.2	3.9	4.2	1.7								10.3	6.8
WSW	.3	2.1	2.1	2.3	.4	.1						7.4	9.6
W	.7	3.1	4.9	2.6	.6							11.8	8.7
WNW	.7	.9	2.4	1.6	.2	.7						6.0	9.9
NW	.3	.4	1.4	.6								2.8	8.0
NNW	.7	.9	1.2	.9								3.7	7.8
VARBL													
CALM												11.0	
	16.3	30.9	26.1	13.2	1.9	.6						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS

970

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

7a-P3
YEARS

SEP
MONTH

ALL WEATHERED
CLASS

2177-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	.9	1.1	.1								2.9	6.0
NNE	1.7	1.8	.9	1.0		.1						4.8	7.1
NE	.0	1.4	1.1	.6								4.7	6.4
ENE	1.1	.2	.7									1.6	3.1
E	.9	.3	.3									1.6	4.1
ESE	.0	.6	.4									1.9	4.2
SE	1.7	1.2	.0	.1								3.2	5.2
SSE	1.4	1.9	1.4	.1								4.4	4.7
S	3.4	6.6	3.3									13.3	5.0
SSW	3.7	6.4	1.8									11.2	4.7
SW	1.1	5.7	5.1	.9	.1							12.4	6.6
WSW	.6	4.4	4.9	1.4	.1	.1	.1					11.7	7.8
W	.7	7.4	3.6	.6		.1						7.3	7.2
WNW	.2	1.2	.8	.1								2.3	6.2
NW	.9	1.1	.6	.9	.1							3.6	7.2
NNW	.1	.9	.6	.3	.1							2.7	7.7
VARIABLE													
CALM												11.8	
	18.7	37.1	26.6	5.7	.4	.3	.1					100.0	5.3

TOTAL NUMBER OF OBSERVATIONS

970

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-93
YEARS

SFP
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.3	1.2	.6	.1	.7						4.2	6.6
NNE	1.3	1.8	1.3	.8	.1	.7						5.2	6.5
NE	1.1	1.7	1.1	.5								4.4	6.7
ENE	1.7	.9	.4	.2								2.6	5.7
E	.8	.5	.1	.7								1.4	3.6
ESE	.4	.4	.1	.0								1.7	4.4
SE	.5	.5	.2	.7								1.2	4.5
SSE	.6	.7	.3	.1	.7							1.7	4.7
S	1.8	2.5	1.1	.1	.7	.7						5.5	4.9
SSW	2.7	3.7	1.5	.5	.1	.7						7.8	5.6
SW	1.8	5.2	5.5	3.2	.6	.3	.7	.7				16.6	8.2
WSW	1.3	4.1	4.3	3.6	.8	.4	.7	.7				14.6	9.3
W	2.2	3.7	4.7	2.3	.4	.2						12.8	7.7
WNW	1.1	1.1	1.2	.7	.1	.7						4.3	7.2
NW	.7	1.7	.9	.6	.1	.7						3.4	7.1
NNW	.6	.8	.8	.6	.1	.7						3.0	7.9
VARBL													
CALM												10.5	
	18.2	37.7	24.7	13.8	2.5	1.0	.1	.0				100.7	6.4

TOTAL NUMBER OF OBSERVATIONS

7200

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727755 STATION MALMSTROM AFB MT STATION NAME 74-83 YEARS OCT MONTH 0000-2200 RANGE (L S T)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.0	.3	1.0								3.3	6.7
NNE	1.0	1.0	.4	.5	.1	.1						3.1	6.9
NE	.3	.3	.2	.1								1.0	6.0
ENE	.3											.3	2.0
E	.3				.1							.4	6.3
ESE	.2	.1										.3	3.3
SE	.3	.1										.4	3.3
SSE	.9	.3										1.2	3.0
S	2.5	3.1	1.7									6.5	4.3
SSW	2.7	6.1	3.7	1.4								13.2	6.2
SW	2.7	8.1	9.6	5.3	.5	.2	.1					25.8	8.3
WSW	1.1	4.9	6.6	3.3	.3							16.2	8.0
W	2.5	1.0	2.5	1.3								8.2	6.4
WNW	.4	.3	.8	.2								1.7	6.6
NW	.4	.8	.8	.4								2.4	7.0
NNW	.3	.9		.2								1.4	5.5
VARBL													
CALM												14.5	
	15.7	28.8	25.7	13.8	1.1	.3	.1					100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

OCT
MONTH

ALL WEATHER
CLASS

0300-2500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.3	.2	.6	.1							3.1	6.6
NNE	.9	.8	.6	.8								2.7	6.2
NE	.4	.2		.8								1.1	7.1
ENE	.2	.1										.3	4.0
E	.1											.1	2.0
ESE	.1											.1	2.0
SE	.3	.1										.4	3.3
SSE	.9	.2										1.1	2.8
S	1.9	2.6	.8	.2								5.5	4.6
SSW	2.4	4.3	2.8	1.3								10.8	6.2
SW	2.5	8.5	11.1	6.3	.8	.2						29.0	8.1
WSW	2.4	6.3	5.1	3.8	.6	.1						18.0	7.7
W	1.5	3.5	2.2	.1								7.3	5.4
WNW	.6	.8	.6	.1								2.2	5.7
NW	.8	1.7	.2	.3		.1						2.0	7.2
NNW	.1	.8	.1	.2								1.2	6.5
VARBL													
CALM												15.2	
	15.6	30.4	23.7	13.5	1.2	.4						100.0	5.9

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727755 MALMSTROM AFB MT 74-83 OCT 1974
STATION STATION NAME YEARS MONTHS
ALL WEATHER CLASS 0610-0800 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.6	.8	.3									1.7	4.6
NNE	.8	.6	.9	.4								2.7	6.4
NE	.9	.4	.3	.1								1.7	4.7
ENE	.2	.1	.2									.5	4.4
E	.6	.1										.8	2.0
ESE	.2	.2										.4	3.3
SE	.9	.1										1.7	2.8
SSE	1.1	.1										1.2	2.0
S	3.7	1.7	1.2	.2								5.2	4.8
SSW	1.7	3.6	3.7	2.0								10.6	7.0
SW	3.7	6.9	9.7	6.1	1.2	.1						26.3	8.5
WSW	1.6	6.1	4.3	3.4	1.7	.1						16.6	8.1
W	1.7	3.8	2.5	.9		.1						8.9	6.3
WNW	.4	.9	.4	.1	.1							1.9	6.6
NW	.1	1.2	.6	.2	.3							2.5	8.2
NNW	.3	.2	.6	.1								1.3	6.8
VARBL													
CALM												16.7	
	16.2	27.1	23.4	13.7	2.6	.3						100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

001
MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.7	.5	.3								2.5	6.0
NNE	.9	.9	1.1	.6								3.4	6.8
NE	.8	.8	.6	.2								2.4	5.7
ENE	1.7	.5										1.5	3.3
E	.6	.3										.9	2.6
ESE	.2	.1										.3	3.0
SE	.6	.3										1.7	2.9
SSE	.5	.1										.6	3.0
S	.6	.8	.5	.1								3.0	5.1
SSW	.1	1.1	.8	2.7	.3	.1						5.3	10.9
SW	.9	2.2	4.9	1.2	4.8	1.7	.2					24.9	13.5
WSW	1.3	3.1	5.5	7.7	4.7	1.2	.1					22.9	12.1
W	1.5	4.5	4.6	2.3	1.1							14.7	8.2
WNW	.8	1.0	.4	.2	.1							2.5	5.7
NW	.9	.9	.2	.4	.1	.1						2.6	6.7
NNW	.3	.9	1.7	1.7	.1	.1	.1					3.4	9.8
VARBL													
CALM												9.8	
	11.8	18.2	20.2	25.8	10.5	3.2	.4					100.0	9.3

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

OCT
MONTH

ALL WEATHER
CLASS

1772-1900
HOURS (L & T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	.9	1.1	.6	.1							3.7	7.0
NNE	1.3	1.4	1.3	.8								4.7	6.6
NE	1.7	1.4	1.6	.8								4.7	6.8
ENE	.1	1.6	.8									2.5	5.8
E	1.1	1.4	.3									2.8	4.2
ESE	.2	.7										.4	3.8
SE	.2	.2										.4	4.0
SSE	.1	.7										.3	4.7
S	.5	.5	.1	.8	.1							1.7	6.8
SSW	.1	.7	1.1	1.8	.7							3.5	11.9
SW	.2	.8	4.7	6.6	4.7	1.9	.4					18.4	14.8
WSW	.5	2.7	5.7	9.1	5.7	1.5	.1					24.7	13.4
W	1.5	2.8	3.0	4.4	2.2	1.0	.1					14.5	11.3
WNW	.9	1.1	1.2	.8	.3	.1						4.3	8.0
NW	.9	1.2	1.0	1.1	.3							4.4	8.1
NNW	.4	1.4	1.3	.9	.2							4.2	8.3
VARBL													
CALM												4.6	
	17.7	17.5	22.0	26.8	13.9	4.5	.6					170.7	10.5

TOTAL NUMBER OF OBSERVATIONS

932

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

OCT
MONTH

ALL WEATHERED
CLASS

1522-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.2	1.4	1.0								4.5	7.4
NNE	1.1	2.9	2.2	1.4								7.5	6.9
NE	1.6	2.5	2.7	.9	.1							7.1	6.4
ENE	1.7	1.3	.9	.3								3.3	5.8
E	.5	.3										.9	2.9
ESE	.5	.1	.1									.8	3.3
SE	.3	.2	.2									.8	4.0
SSE		.2	.2									.4	5.8
S	.6	.6	.4	.2								1.9	5.9
SSW	.9	1.3	1.4	2.2								5.7	6.7
SW	.4	2.7	6.3	6.1	3.7	.9	.1					18.9	12.1
WSW	.6	3.8	5.5	6.9	3.3	.2	.1					20.4	11.6
W	.9	2.0	3.3	4.3	1.6	.5						12.7	11.3
WNW	1.0	.9	1.3	1.0	.1	.1						4.3	8.2
NW	1.7	1.2	1.7	.9								4.7	6.8
NNW	.5	.9	.8	.3	.3							2.8	7.8
VARBL													
CALM												4.0	
	11.9	21.4	26.9	25.4	8.5	1.7	.2					100.0	9.1

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

OCT
MONTH

ALL WEATHER
CLASS

1992-2002
YEARS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.2	1.7		.2							3.7	6.5
NNE	1.1	1.6	2.0	1.1	.1							5.9	7.2
NE	1.1	.9	.8	.1								2.9	5.7
ENE	1.3	1.1										2.4	3.5
E	1.1			.1								1.2	2.9
ESE	.1	.4	.2									.8	5.6
SE	1.3	.9										2.2	3.4
SSE	1.3	1.4	.2									2.9	3.9
S	1.8	3.2	.4									5.5	4.2
SSW	.5	5.5	3.1	1.2	.2							10.5	7.7
SW	1.3	5.7	8.8	4.2	.6	.2						21.0	8.8
WSW	.4	3.7	5.1	4.2	.8	.2						14.7	9.7
W	.6	1.7	4.7	3.0	.4	.1						9.9	9.4
WNW	.8	1.6	.4	.3								3.1	5.7
NW	.4	.3	.3	.4								1.5	7.1
NNW	.3	.8	.6	.1								1.8	5.8
VARBL													
CALM												11.6	
	14.4	29.2	27.0	14.7	2.4	.6						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-03
YEARS

OCT
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.0	.9	.8								3.1	6.5
NNE	.5	.9	1.1	.5	.1							3.1	7.8
NE	.9	.4	.7	.2	.1							1.6	6.3
ENE	.1		.1									.2	4.5
E	.3	.1										.4	2.7
ESE	.1	.5	.1									.9	5.0
SE	.8	.3	.5									1.5	4.5
SSE	1.6	1.2	.1									2.9	3.2
S	3.1	6.1	.9	.1								10.2	4.4
SSW	1.7	6.1	4.1	1.7								12.9	6.4
SW	2.2	6.1	9.1	4.8	1.2	.7	.1					23.9	8.6
WSW	1.2	5.9	5.6	2.7	1.2							15.9	8.1
W	.6	2.6	1.9	.9	.1							6.1	7.1
WNW	.3	1.1	.4	.4								2.3	7.7
NW	.6	1.7	.4	.1	.1							2.3	6.7
NNW	.4	.5	.7		.1							1.4	5.8
VARBL													
CALM												11.3	
	15.3	33.9	25.7	10.5	2.9	.3	.1					100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

77755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

OCT
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.7	.7	.5	.1							3.1	6.6
NNE	.9	1.2	1.2	.7	.7	.7						4.2	6.9
NE	.8	.9	.7	.3	.7							2.9	6.1
ENE	.5	.6	.7	.7								1.4	4.7
E	.6	.3	.7	.7	.7							.9	3.4
ESE	.7	.7	.1									.5	4.1
SE	.6	.3	.1									1.0	3.6
SSE	.8	.5	.1									1.7	3.3
S	1.7	2.3	.7	.7	.7							4.8	4.7
SSW	1.2	3.6	2.5	1.7	.1	.7						9.1	7.3
SW	1.6	5.7	7.8	6.7	2.1	.7	.1					23.5	10.1
WSW	1.2	4.4	5.4	5.7	2.1	.4	.7					18.6	10.2
W	1.4	2.9	3.0	2.1	.7	.2	.7					10.2	8.7
WNW	.6	.9	.7	.4	.1	.7						2.8	6.9
NW	.6	.9	.6	.5	.1	.7						2.7	7.2
NNW	.3	.8	.6	.3	.1	.7	.7					2.2	7.6
VARBL													
CALM												11.0	
	13.9	25.8	24.3	18.7	5.4	1.4	.2					100.0	7.4

TOTAL NUMBER OF OBSERVATIONS

7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755 STATION MALMSTROM AFB MT 74-83 YEARS NOV NORTH
ALL WEATHER CLASS 1992-0200 NOV (LST)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.7	.7	1.0	.1							2.2	9.0
NNE	.7	1.0	1.3	.1								3.1	6.0
NE	.4	.3	.7									1.7	4.4
ENE	.6	.7										.9	2.9
E	.1	.2										.3	4.3
ESE		.4										.4	4.3
SE	.7	.1	.1									.5	3.4
SSE	.7	.2	.1									1.0	3.3
S	1.7	3.0	.4	.1								4.5	5.0
SSW	1.8	3.4	3.6	2.4	.2							11.4	7.3
SW	1.1	5.8	11.6	9.2	2.0	1.3	.7					21.2	10.5
WSW	1.0	4.0	5.7	5.1	1.6	.7	.2	.1				17.5	12.5
W	.9	2.7	1.4	1.8	.3	.1						7.1	8.2
WNW	.7	.7	.6	.2								2.4	6.2
NW	.4	.9	.2	.1								1.7	5.7
NNW	.3	.6	.4	.9								2.2	8.4
VARBL													
CALM												11.6	
	10.3	24.3	26.2	21.0	4.2	1.9	.4	.1				100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 620

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

NOV
MONTH

ALL WEATHER
CLASS

2300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.6	.3	1.1								2.3	9.6
NNE	.4	1.1	1.7	.1								2.7	6.3
NE	.6	.3										.9	3.4
ENE	.4	.7										.7	3.7
E	.2		.1									.3	3.7
ESE			.1									.1	7.7
SE	.7	.1										.3	3.3
SSE	.2	.2										.4	3.5
S	1.4	2.8	.6	.4	.1							5.3	5.4
SSW	1.2	3.3	3.7	1.8	.1	.1						10.2	7.5
SW	1.3	5.7	11.4	8.8	2.2	.6	.4	.1				30.6	10.3
WSW	1.4	4.1	6.3	7.4	.6	1.1	.3					22.9	10.5
W	1.1	3.1	2.0	.8	.4							7.4	7.2
WNW	.4	.7	.4	.3								1.9	6.2
NW	.3	.8	.8	.3								2.2	6.7
NNW	.1	.6	.6	.7	.1							2.0	8.9
V. L.													
CALM												11.7	
	9.9	23.6	27.3	21.3	3.6	1.8	.8	.1				100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

NOV
MONTH

ALL WEATHER
CLASS

0600-2800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.4	.3	.8	.1							1.1	2.8
NNE	.7	.9	.6	.1	.2							2.4	6.5
NE	.8	.2	.1	.3								1.4	5.2
ENE	.9	.4										1.2	2.8
E	.1	.7										.3	3.7
ESE	.2	.1	.2									.6	5.4
SE	.4	.1										.6	2.6
SSE	.2											.2	2.0
S	.6	1.7	.1	.3								2.7	5.5
SSW	1.4	4.1	2.4	3.7	.7	.1						11.8	8.4
SW	2.2	5.4	17.6	8.8	3.2	.3	.3					70.9	10.2
WSW	1.3	2.8	7.2	6.7	.8	1.4	.1					19.7	10.8
W	1.1	2.8	2.4	.9	.4	.1	.1					7.9	7.8
WNW	.6	.8	.2									1.6	4.4
NW	.6	.9	.8	.2								2.4	6.7
NNW	.4	.9	.4	.4								2.2	6.5
VARBL													
CALM												11.0	
	11.9	22.8	25.4	20.9	5.4	2.7	.6					170.0	8.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727755
STATION

WALMSTROM AFB MT
STATION NAME

74-83
YEARS

NOV
MONTH

ALL WEATHER
CLASS

0000-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.2	.9	.8		.2						3.4	8.8
NNE	1.2	1.4	.8	.4	.2	.1						4.2	6.8
NE	.6	1.6	.2	.1								2.4	4.8
ENE	.2											.2	2.5
E	.2	.1										.3	3.0
ESE	.1	.2	.4									.6	5.6
SE	.2	.2	.1									.6	4.6
SSE	1.0											1.2	2.1
S	1.0	.7	.3	.4	.1							2.6	6.1
SSW	.9	1.5	1.9	2.1	1.4	.3						8.2	10.7
SW	1.6	2.4	6.6	13.0	3.7	1.2	.1					28.5	12.3
WSW	.9	2.0	5.3	7.7	4.3	2.8	.1					22.2	13.5
W	1.3	2.4	2.9	1.3	.7	.8	.3	.1				9.6	9.9
WNW	.6	.8	.8	.2	.1							2.1	7.1
NW	1.3	.7	.8	.2	.1							2.7	6.1
NNW	1.1	.8	.3	.2	.1							2.6	5.3
VARBL													
CALM												9.8	
	12.6	15.3	21.1	26.6	9.9	5.1	.6	.1	.1			100.0	9.7

TOTAL NUMBER OF OBSERVATIONS 970

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

NOV
MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	1.1	.8	.8	.2	.1						4.4	7.4
NNE	.8	2.1	1.1	1.1	.2							5.3	7.5
NE	.8	1.3	.9									2.2	5.0
ENE	.8	.7	.1									1.6	3.9
E	.6	.2										.9	2.7
ESE	.4	.4										.9	3.7
SE	.2	.1										.3	3.0
SSE	.2	.7	.1									1.0	4.8
S	.2	.7		.2								1.1	6.4
SSW	.4	.6	.8	2.8	1.0	.7						5.9	12.7
SW	.6	.1	3.2	11.1	4.4	2.6	.7					22.7	15.4
WSW	.4	1.6	4.7	10.0	4.3	2.1	.7	.1				23.9	14.4
W	1.0	1.9	2.4	3.6	1.9	1.6	.2	.1				12.7	13.1
WNW	.9	.7	1.8	.9	.3							4.6	8.3
NW	.9	.4	1.2	1.0	.2							3.8	8.1
NNW	.8	1.2	.4	.2	.2							2.9	6.4
VARBL													
CALM												5.3	
	10.4	13.8	17.4	31.7	12.9	6.7	1.6	.2				100.0	11.3

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755 STATION NAME MARMSTROM AFB MT 74-93 YEARS NOV MONTH 1500-1700 HOURS (LST)
ALL WEATHER CLASS
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.8	.4	.8	.6							3.9	8.8
NNE	1.1	2.0	1.0	.9	.6							5.6	7.6
NE	1.4	2.6	1.4	.2								5.7	5.4
ENE	.7	1.2	.1									2.7	4.4
E	.3	.1										.4	2.0
ESE	.2	.1										.3	3.0
SE	.2	.1	.1									.4	4.3
SSE	.4	.3										.8	2.7
S	.8	1.1	.3	.6								2.8	6.3
SSW	.9	1.1	2.2	1.6	.4	.1	.1					6.5	9.6
SW	.7	3.7	5.7	8.7	3.4	1.1	.1					23.4	12.0
WSW	.4	2.6	4.7	7.5	3.4	1.6	.2	.1				20.5	13.2
W	.3	1.8	2.4	3.9	2.3	1.1						11.9	13.1
WNW	.2	.8	1.3	.7								3.2	8.1
NW	.7	.4	.6	.9		.1						2.7	8.6
NNW	.9	1.7	.6	1.1	.2							3.8	7.8
VARBL													
CALM												6.5	
	9.7	20.7	20.9	26.7	11.0	4.0	.4	.1				100.0	9.8

TOTAL NUMBER OF OBSERVATIONS 809

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

NOV
MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	.6	.2	.8	.1							2.8	7.2
NNE	1.6	1.7	1.8	.2								4.8	5.3
NE	.8	.9	1.0									2.7	5.6
ENE	1.7	.3	.1									1.4	2.8
E	.8	.2										1.0	2.9
ESE	.1	.1										.2	3.5
SE	.1	.2	.1									.4	4.8
SSE	1.2	.3	.3									1.9	3.5
S	1.4	3.1	.6	.2								5.4	4.7
SSW	1.3	4.7	3.7	2.5		.2						11.7	7.7
SW	.8	5.9	9.6	7.6	1.6	.7	.1					25.9	10.2
WSW	.3	2.5	5.2	6.7	2.2	.6						17.5	11.6
W	.6	1.7	2.9	2.6	.8							8.5	12.0
WNW	.2	.8	1.2	.2								2.5	7.2
NW	.3	.9	1.2	.6	.1							3.1	7.6
NNW	.7	.3	.8	.8								2.6	7.3
VARBL													
CALM												7.7	
	12.7	24.2	27.6	22.1	4.8	1.4	.1					100.0	8.7

TOTAL NUMBER OF OBSERVATIONS 897

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AID WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

HALMSTROM AFB MT
STATION NAME

74-83
YEARS

NOV
MONTH

ALL WEATHERED
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	.6	.8	1.1								3.3	7.7
NNE	.9	.9	1.7	.3								3.0	6.1
NE	.9	1.0	1.0									2.9	5.3
ENE	.3	.3										.7	2.8
E	.7	.1										.3	3.0
ESE	.2	.1										.3	3.7
SE		.4										.4	4.8
SSE	.2	.3	.2									.8	4.6
S	2.7	3.1	.9	.4								6.5	5.1
SSW	1.7	5.1	4.1	1.8	.3	.1						12.3	7.5
SW	1.2	4.7	12.2	9.0	1.9	.7	.1	.1				28.9	10.2
WSW	1.3	3.5	4.6	5.2	1.3	.7						16.6	10.2
W	1.0	2.6	2.0	2.1	.4							8.1	8.5
WNW	1.1	.3	1.1	.3	.1							3.7	6.6
NW	.4	1.7	.6									2.7	5.3
NNW	.4	.7	.2	.2								1.1	5.9
VARBL													
CALM												9.1	
	12.5	24.3	28.7	19.6	4.1	1.4	.1	.1				100.0	7.7

TOTAL NUMBER OF OBSERVATIONS 897

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

NOV
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L & T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.7	.6	.9	.1	.7						3.3	8.2
NNE	.9	1.4	1.7	.4	.2	.7						3.9	6.6
NE	.8	1.7	.6	.1								2.5	5.1
ENE	.6	.4	.7									1.1	3.4
E	.3	.2	.7									.5	3.7
ESE	.2	.2	.1									.4	4.2
SE	.2	.2	.1									.5	3.8
SSE	.5	.3	.1									.9	3.5
S	1.1	2.7	.4	.3	.7							3.9	5.4
SSW	1.2	3.7	2.7	2.2	.5	.2	.7					9.8	8.5
SW	1.1	4.2	8.8	9.4	2.8	1.1	.3	.7				77.7	11.2
WSW	.9	2.9	5.4	6.9	2.2	1.3	.2	.7	.7			19.9	12.0
W	.9	2.4	2.3	2.1	.9	.4	.1	.7				9.1	10.1
WNW	.6	.6	1.7	.4	.1							2.5	7.1
NW	.6	.7	.8	.4	.1	.7						2.6	7.7
NNW	.6	.7	.5	.6	.1							2.4	7.1
VARBL													
CALM												9.3	
	11.2	21.1	24.3	23.7	7.0	3.0	.6	.1	.7			177.7	8.8

TOTAL NUMBER OF OBSERVATIONS

7193

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JAN 64

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

73-82
YEARS

DEC
MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.3	1.2	.4								3.2	6.8
NNE	1.2	1.7	1.3	.5	.1							4.8	6.3
NE	.8	.9	1.7	.2								2.8	5.9
ENE	.1	.2	.1									.6	4.2
E	.2	.1										.3	3.3
ESE	.2											.2	2.7
SE													
SSE		.2	.2									.4	6.3
S	1.7	1.1	.3									3.1	4.1
SSW	.8	2.1	2.4	3.0	.8	.4						9.4	10.3
SW	1.4	4.5	9.1	17.9	5.4	1.1	.4					32.8	12.9
WSW	.6	3.2	5.9	5.7	3.3	1.2	.2	.1				20.3	12.1
W	1.6	2.0	2.4	1.3	.2	.1	.1					7.7	7.8
WNW	.5	.1	.5	.1								1.3	5.6
NW	.1	1.1	.5	.4								2.2	7.1
NNW	.2	.4	.5	.2	.2	.1						1.7	9.9
VARBL													
CALM												9.0	
	10.7	18.9	25.5	22.8	10.0	2.9	.8	.1				100.0	9.2

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

727755
STATION

MALMSTROM AFB MT
STATION NAME

73-82
YEARS

DEC
MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.3	.3	.2								2.6	5.2
NNE	.8	2.0	1.0	.4	.1							4.3	6.3
NE	.9	1.3	.3	.2	.1							2.8	5.6
ENE	.4	.3	.1	.1								1.7	4.9
E	.6	.1										.8	2.7
ESE													
SE				.1								.1	14.0
SSE	.3	.1										.4	2.5
S	.6	1.5	.4	.2	.2							3.0	6.3
SSW	1.6	2.3	1.0	2.4	1.3	.7						9.7	9.4
SW	1.7	5.4	6.6	11.0	5.3	2.3	.8	.2				73.1	12.6
WSW	1.2	2.8	4.8	6.2	2.9	1.4	.2					19.6	12.3
W	.6	2.0	2.2	.9	.4	.2						6.3	8.9
WNW	.4	1.3	.3	.2								2.3	5.7
NW	.4	.2	.4	.5	.1							1.7	8.7
NNW	.1	.9	.1	.5	.1							1.7	7.8
VARBL													
CALM												10.6	
	10.5	21.5	18.5	23.0	10.5	4.1	1.0	.2				100.0	9.3

TOTAL NUMBER OF OBSERVATIONS 930

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

707755
STATION

WALMSTROM AFB MT
STATION NAME

77-82
YEARS

DEC
MONTH

ALL WEATHER
CLASS

1600-2800
HOURS (L & T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.9	1.1	.6								3.3	6.6
NNE	1.3	1.0	1.2	.3								4.7	5.5
NE	.5	1.3	.3	.1								2.3	5.0
ENE	.3	.8	.2	.1								1.4	5.4
E	.1											.1	1.0
ESE	.1											.2	2.7
SE	.1	.1										.2	3.0
SSE	.1	.2		.1								.4	6.0
S	1.2	.5	.1	.3								2.2	4.9
SSW	1.1	2.7	1.4	2.5	1.6	.3	.1					9.7	10.7
SW	1.9	4.4	7.4	17.8	5.1	1.9	.5	.2				12.3	12.4
WSW	.4	2.0	4.4	7.4	2.6	1.4	.5					20.5	12.9
W	1.2	1.6	1.8	.6	.3	.1						5.7	7.6
WNW	.1	.4	.4	.1	.3							1.4	9.2
NW	.1	.5	.3	.6								1.8	7.9
NNW	.3	1.3	.4	.4	.2							2.7	7.4
VARBL													
CALM												11.1	
	10.0	19.6	19.6	24.1	10.1	4.2	1.2	.2				100.0	9.4

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727755
STATION

MALMSTROM AFB MT
STATION NAME

73-92
YEARS

DEC
MONTH

ALL WEATHER
CLASS

0000-1100
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.4	1.4	1.1								3.7	8.1
NNE	.5	2.6	1.1	.6								4.9	6.4
NE	1.7	1.4	.9	.1								3.3	5.3
ENE	.2	.1	.1									.4	5.3
E	.5	.2	.1									.9	4.0
ESE	.1	.2	.1									.4	4.8
SE	.4	.1	.1									.6	4.0
SSE	.4	.2										.6	2.7
S	1.1	.5	.3									1.9	4.1
SSW	1.2	1.2	2.7	2.6	1.7	.7	.2					9.8	11.6
SW	1.7	4.1	5.4	17.1	6.7	2.7	.6	.1				11.4	13.4
WSW	.3	3.2	3.8	8.5	4.4	2.9	.4					23.4	14.2
W	1.1	1.4	.9	1.1	.5	.3						5.3	9.3
WNW	.2	1.1	.4	.2	.1							2.7	6.8
NW	.4	.5	.4	.2								1.6	6.3
NNW	.3	.3	.8	.8								2.2	9.8
VARBL													
CALM												9.5	
	10.0	18.7	17.8	24.7	13.4	6.1	1.3	.1				100.0	12.5

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

WALMSTROM AFB MT
STATION NAME

77-02
YEARS

DEC
MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L & T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.2	1.0	.6								4.8	6.8
NNE	.8	1.7	1.6	.6								4.7	6.7
NE	1.2	1.0	1.0	.1								4.2	5.0
ENE	.3	.4	.1	.1								1.7	5.1
E	.6	.4	.1									1.2	3.3
ESE		.1	.1									.2	6.0
SE	.3	.3										.6	3.5
SSE		.3										.3	4.7
S	.6	.3	.1									1.1	3.1
SSW	.3	.0	.8	.8	1.4	.4						4.5	12.4
SW	.6	1.3	4.6	8.7	7.1	3.4	1.0	.1				27.2	15.7
WSW	.3	1.7	4.5	9.7	5.8	4.3	1.4	.3				27.2	16.0
W	.5	1.4	1.9	2.2	1.7	1.3		.1				9.7	14.0
WNW	.3	.8	.6	.4								2.2	7.1
NW	.8	1.7	1.0	.6								3.3	7.2
NNW	.5	.4	.0	1.7	.3							3.1	9.8
VARBL													
CALM												4.5	
	8.4	14.2	19.2	24.2	16.3	10.2	2.4	.4				100.0	12.3

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

727755
STATION

MALMSTROM AFB MT
STATION NAME

77-82
YEARS

DEC
MONTH

ALL WEATHER
CLASS

1522-1722
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.5	1.2	.7	.2							5.3	6.3
NNE	1.7	1.8	2.4	.7								6.2	5.9
NE	.9	2.3	1.7	.1								4.1	5.3
ENE	.6	1.4	.7									2.3	4.4
E	.9	.7	.1									1.1	3.0
ESE	.4											.4	2.0
SE	.7											.7	3.7
SSE	.3											.7	2.3
S	.4	.5	.7	.3	.1							1.7	6.7
SSW	.5	1.3	1.8	1.0	.6	.1						6.3	10.0
SW	.4	3.5	5.7	8.7	5.6	2.4	.8	.1				26.7	13.8
WSW	.3	.6	3.8	8.7	5.1	2.5	.5					21.5	15.2
W	.4	1.1	1.5	3.5	1.4	.6	.1					8.7	12.9
WNW	.1	.5	.3	.3	.1	.1						1.5	9.7
NW	.6	1.2	1.5	.5								3.0	7.1
NNW		.6	1.7	.6	.5							2.8	11.2
VARBL													
CALM												7.0	
	8.8	17.7	20.1	25.5	13.7	5.7	1.4	.1				100.0	13.6

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727755
STATION

HALMSTROM AFB MT
STATION NAME

73-82
YEARS

DSC
MONTH

ALL WEATHER
CLASS

1930-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.8	1.2	.9								4.9	6.6
NNE	.9	2.4	1.1	.8	.1							4.8	6.5
NE	1.2	1.7	.6	.2								3.7	5.0
ENE	.1	.3	.1									.8	5.6
E	.1	.1										.2	3.0
ESE													
SE	.1											.3	2.3
SSE	.5	.1										.9	3.3
S	.9	1.9	.6	.3	.1							3.9	5.6
SSW	1.3	2.5	3.4	1.4	.6	.1		.1				9.7	8.9
SW	1.2	3.4	9.6	9.1	4.9	1.2	.4	.1				17.0	12.0
WSW	.2	2.7	4.1	6.8	2.7	1.1	.1					18.5	12.9
W	.3	1.3	1.1	2.7	.9	.1						7.2	11.6
WNW	.3	.6	.9	.1								2.2	6.9
NW	.5	1.2	1.1	.8								3.3	6.9
NNW	.6	1.1	.8	.3	.1							2.8	6.7
VARBL													
CALM												7.5	
	9.6	27.5	25.6	23.0	9.5	3.5	.5	.2				100.0	9.3

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727755
STATION

MALMSTROM AFB MT
STATION NAME

77-82
YEARS

DEC
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.6	.9	.3								3.2	6.5
NNE	1.2	1.1	1.7	.6	.2							4.1	6.8
NE	.4	1.2	.8	.7	.1							2.5	6.1
ENE	.5	.4	.1									1.1	3.5
E	.2	.1										.3	3.0
ESE	.3	.2	.1									.6	4.5
SE	.1											.1	2.0
SSE	.5	.3										.9	3.1
S	1.2	1.7	.6	.1	.1							3.0	5.4
SSW	.8	2.5	2.5	2.4	.9	.1						9.0	9.4
SW	1.5	4.9	7.6	11.2	4.4	1.7	.3	.3				12.0	12.1
WSW	1.3	3.4	4.9	5.3	1.8	1.9	.3	.1				19.1	12.0
W	.4	2.0	1.7	1.9	1.0	.2						7.3	10.2
WNW	.2	.9	.5	.1								1.7	6.2
NW	.3	1.5	.3	.1								2.3	5.6
NNW	.5	.6	.9	.5	.4							2.9	8.7
VARBL													
CALM												9.7	
	10.0	21.8	21.8	22.7	8.9	4.7	.6	.4				100.7	9.1

TOTAL NUMBER OF OBSERVATIONS 932

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

707755 MALMSTROM AFB MT 73-62 DEC
STATION STATION NAME YEARS MONTH

ALL WEATHER
CLASS

CONDITION

ALL
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.4	1.1	.6	.0							3.9	6.7
NNE	1.0	1.9	1.3	.5	.1							4.8	6.3
NE	.8	1.4	.7	.1	.0							3.1	5.4
ENE	.4	.5	.2	.0								1.1	4.7
E	.4	.2	.0									.6	3.2
ESE	.2	.1	.0									.3	3.7
SE	.2	.1	.0	.0								.3	3.8
SSE	.3	.2	.0	.0								.5	3.7
S	1.0	.9	.3	.2	.1							2.5	5.2
SSW	.9	1.9	2.0	2.0	1.1	.3	.0	.0				8.4	10.2
SW	1.3	4.0	6.9	12.1	5.6	2.1	.6	.1				20.7	12.9
WSW	.6	2.6	4.6	7.2	3.6	2.2	.5	.1				21.3	13.6
W	.8	1.6	1.8	1.8	.8	.5	.0	.0				7.2	10.6
WNW	.3	.7	.5	.2	.1	.0						1.8	7.0
NW	.4	.9	.7	.5	.0							2.5	7.1
NNW	.3	.7	.6	.6	.2	.0						2.5	8.8
VARBL													
CALM												8.5	
	9.7	19.0	21.0	23.7	11.6	5.1	1.1	.2				100.0	10.0

TOTAL NUMBER OF OBSERVATIONS 7442

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

727755
STATION

MALMSTROM AFB MT
STATION NAME

73-83
YEARS

ALL
MONTHS

ALL WEATHER
CLASS

ALL
HOURS (L & T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.4	1.2	.7	.1	.0						4.5	7.1
NNE	1.1	1.8	1.5	.7	.1	.0	.0					5.1	6.8
NE	1.0	1.6	1.2	.5	.0	.0						4.3	6.3
ENE	.8	.9	.5	.2	.0	.0						2.4	5.5
E	.8	.7	.3	.1	.0	.0						1.8	4.7
ESE	.4	.4	.2	.1	.0							1.0	5.3
SE	.5	.4	.2	.1	.0	.0	.0					1.3	5.0
SSE	.6	.6	.2	.1	.0							1.5	4.6
S	1.5	2.1	.8	.2	.0	.0						4.6	5.1
SSW	1.3	2.9	1.7	1.1	.3	.1	.0	.0				7.5	7.3
SW	1.4	4.2	5.6	5.2	1.8	.7	.1	.0	.0			19.1	10.3
WSW	1.1	3.1	4.2	4.9	2.0	.8	.1	.0	.0			16.1	11.1
W	1.3	2.7	3.1	2.6	.9	.4	.0	.0	.0			10.9	9.5
WNW	.7	1.1	1.0	.5	.1	.0	.0					3.5	7.4
NW	.7	1.0	.9	.5	.1	.0						3.2	7.1
NNW	.5	.9	.8	.6	.1	.0	.0					3.0	7.7
VARBL													
CALM												10.2	
	14.5	25.8	23.4	19.1	5.7	2.0	.3	.0	.0			100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

87640

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AID WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

727755
STATION

HALMSTROM AFB MT
STATION NAME

73-83
YEARS

ALL
MONTH

INSTRUMENT

CLASS

CIG 200 TO 1400 FT W/ VSBY 1/2 MI OR MORE,

CONDITION

AND/OR VSBY 1/2 TO 2-1/2 MI W/CIG 200 FT OR MORE

ALL
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	4.6	5.1	4.6	.8	.3						17.1	9.1
NNE	2.2	5.8	6.5	4.7	.9	.1	.7					19.5	8.2
NE	1.1	3.2	2.9	2.1	.3							9.6	8.0
ENE	.7	1.2	.5	.2	.1	.7						2.7	6.1
E	.5	.2	.1	.7	.0							.3	4.7
ESE	.2	.2	.1									.5	3.9
SE	.7	.1										.3	2.9
SSE	.1	.1	.7									.3	4.1
S	.2	.3	.7									.5	3.8
SSW	.5	.5	.1	.1								1.2	4.3
SW	.6	.9	.8	.2	.0	.1	.7					2.7	6.9
WSW	.3	1.3	1.3	.8	.2	.1			.2			4.1	5.8
W	.8	2.5	2.1	1.3	.2	.7						6.9	7.6
WNW	.6	1.9	1.7	.5	.1	.7						4.9	7.3
NW	.9	2.4	2.5	1.9	.4	.1						8.2	8.6
NNW	1.2	2.9	3.5	3.3	.9	.7						11.9	9.4
VARBL													
CALM												8.8	
	12.7	28.7	27.1	19.0	4.1	.9	.0		.0			100.0	7.5

TOTAL NUMBER OF OBSERVATIONS

5206

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART D CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

Beginning in January 1968, METAR stations report visibilities to 6 miles and then greater than 6 miles. Thus, for METAR stations, the category equal to or greater than 10 miles is not printed in the tables, unless the summary was for a period ending before January 1968. For most Airways stations, visibilities of greater than 7 miles were not reported for part of the period of record. Therefore, the ≥ 10 mi visibility category should be used with great caution.

(continued on Reverse Side

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	$\geq 2\frac{1}{2}$	≥ 2	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	≥ 1	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	$\geq \frac{1}{16}$	≥ 0
NO CEILING																
≥ 1800																
≥ 1500					91.0											92.6
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500										97.4						98.1
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0					95.4		96.9			98.3						100.0

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed ≥ 0 .
For instance, from the table: Ceiling ≥ 1500 feet = 92.6%.
Ceiling ≥ 500 feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite ≥ 0 . From the table:
Visibility ≥ 3 miles = 95.4%.
Visibility ≥ 2 miles = 96.9%.
Visibility ≥ 1 mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling ≥ 1500 feet with visibility ≥ 3 miles = 91.0%.

ADDITIONAL EXAMPLES

EXAMPLE # 4

Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.

Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5

To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of ≥ 1500 feet with ≥ 3 miles, subtracted from 97.4 read from the table at the intersection of ≥ 500 feet with ≥ 1 mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling ≥ 500 feet with visibility ≥ 1 mile, but < 3 miles; or ceiling ≥ 500 feet, but < 1500 feet with visibility ≥ 1 mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-87

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1000-1200
HOURS (LST)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
≥20000	48.6	49.5	49.8	50.1	50.4	50.4	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.9	50.9	51.0
≥18000	53.9	54.8	55.2	55.5	55.9	55.9	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.5	56.5	56.6
≥16000	54.0	54.9	55.3	55.6	56.0	56.0	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.6	56.6	56.7
≥14000	54.7	54.9	55.3	55.6	56.0	56.0	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.6	56.6	56.7
≥12000	54.6	55.8	56.1	56.5	56.9	56.9	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.4	57.4	57.5
≥10000	56.8	58.0	58.3	58.6	59.0	59.0	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.6	59.6	59.7
≥9000	65.3	66.5	66.8	67.3	67.8	67.8	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.5	68.5	68.5
≥8000	66.1	67.4	67.7	68.3	68.8	68.8	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.5	69.5	69.6
≥7000	71.6	73.1	73.5	74.1	74.6	74.6	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.3	75.3	75.4
≥6000	72.8	74.4	74.9	75.5	76.0	76.0	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.7	76.7	76.8
≥5000	73.1	74.7	75.5	76.0	76.6	76.6	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.2	77.2	77.3
≥4500	74.4	76.2	77.2	77.7	78.3	78.3	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.9	78.9	79.0
≥4000	74.8	76.9	78.0	78.5	79.0	79.0	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.7	79.7	79.8
≥3500	77.3	79.7	81.7	81.5	82.0	82.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.8	82.8	82.9
≥3000	78.4	81.5	82.9	83.5	84.4	84.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.5	85.5	85.6
≥2500	79.8	83.5	85.3	85.9	86.8	86.8	88.1	88.4	88.4	88.7	88.7	88.7	88.7	88.8	88.8	88.9
≥2000	81.5	84.5	86.3	87.1	88.2	88.4	89.7	90.0	90.0	90.3	90.3	90.3	90.3	90.4	90.4	90.5
≥1800	81.1	85.3	87.2	88.3	89.7	89.9	91.2	91.5	91.5	92.0	92.0	92.0	92.0	92.2	92.2	92.3
≥1600	82.2	87.1	89.1	90.4	92.0	92.3	93.7	94.4	94.4	95.1	95.1	95.1	95.1	95.2	95.2	95.3
≥1400	82.4	87.5	89.7	91.1	92.8	93.1	94.5	95.5	95.8	96.7	96.7	96.7	96.7	96.8	96.8	96.9
≥1200	82.4	87.6	89.9	91.3	93.7	93.4	94.9	96.1	96.5	97.3	97.3	97.3	97.3	97.4	97.4	97.5
≥1000	82.4	87.6	90.0	91.4	93.2	93.7	95.2	96.3	96.7	97.7	97.7	97.7	97.7	97.8	97.8	97.9
≥900	82.4	87.6	90.0	91.4	93.2	93.7	95.2	96.3	96.7	97.7	97.7	97.7	97.7	97.8	97.8	97.9
≥800	82.4	87.6	90.0	91.4	93.2	93.7	95.2	96.3	96.7	97.7	97.7	97.7	97.7	97.8	97.8	97.9
≥700	82.4	87.6	90.0	91.4	93.2	93.7	95.2	96.3	96.7	97.7	97.7	97.7	97.7	97.8	97.8	97.9
≥600	82.4	87.6	90.0	91.4	93.2	93.7	95.2	96.3	96.7	97.7	97.7	97.7	97.7	97.8	97.8	97.9
≥500	82.4	87.6	90.0	91.4	93.2	93.7	95.2	96.3	96.7	97.7	97.7	97.7	97.7	97.8	97.8	97.9
≥400	82.4	87.6	90.0	91.4	93.2	93.7	95.2	96.3	96.7	97.7	97.7	97.7	97.7	97.8	97.8	97.9
≥300	82.4	87.6	90.0	91.4	93.2	93.7	95.2	96.3	96.7	97.7	97.7	97.7	97.7	97.8	97.8	97.9
≥200	82.4	87.6	90.0	91.4	93.2	93.7	95.2	96.3	96.7	97.7	97.7	97.7	97.7	97.8	97.8	97.9
≥100	82.4	87.6	90.0	91.4	93.2	93.7	95.2	96.3	96.7	97.7	97.7	97.7	97.7	97.8	97.8	97.9
≥0	82.4	87.6	90.0	91.4	93.2	93.7	95.2	96.3	96.7	97.7	97.7	97.7	97.7	97.8	97.8	97.9

TOTAL NUMBER OF OBSERVATIONS 932

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MAHMSTROM AFB MT

74-83

JAN

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500

HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0.005
NO CEILING	47.4	48.4	48.6	49.7	49.5	49.5	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.7	49.8
≥ 2000	52.7	53.8	54.7	54.1	54.8	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	55.1	55.2
≥ 1800	52.7	53.8	54.7	54.1	54.8	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	55.1	55.2
≥ 1600	52.7	53.8	54.7	54.1	54.8	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	55.1	55.2
≥ 1400	53.2	54.3	54.5	54.6	55.4	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.6	55.7
≥ 1200	54.9	56.1	56.3	56.5	57.3	57.4	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.6	57.8
≥ 1000	64.8	66.3	66.9	67.0	67.8	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.5	68.7
≥ 900	65.8	67.4	68.0	68.1	68.9	69.0	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.6	69.8
≥ 800	71.0	71.8	72.4	72.5	73.3	73.4	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	74.0	74.2
≥ 700	71.2	73.0	73.5	73.7	74.5	74.6	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.2	75.4
≥ 600	71.4	73.3	73.9	74.0	74.8	74.9	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.5	75.7
≥ 500	73.1	75.5	76.7	76.2	77.1	77.2	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.8	78.1
≥ 450	74.3	76.9	77.8	77.6	78.5	78.6	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.2	79.5
≥ 400	75.8	78.7	79.6	79.9	81.9	81.1	81.6	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.9	82.2
≥ 350	76.9	81.1	81.1	81.5	82.5	82.7	83.5	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.9	84.1
≥ 300	78.1	81.7	83.1	83.5	84.7	85.1	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.5	86.7
≥ 250	79.0	82.8	84.4	84.9	86.2	86.7	87.5	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.2	88.4
≥ 200	80.1	84.2	86.7	87.0	88.5	89.0	89.9	90.3	90.4	90.5	90.5	90.5	90.5	90.5	90.6	90.9
≥ 180	81.1	84.4	86.2	87.3	88.8	89.4	91.2	91.6	91.8	90.9	90.9	90.9	90.9	90.9	91.0	91.2
≥ 150	80.8	85.9	88.0	89.1	90.9	91.4	92.5	93.2	93.3	93.7	93.7	93.7	93.7	93.7	93.8	94.0
≥ 120	81.9	86.2	88.5	89.8	91.8	92.5	93.5	94.4	94.5	94.9	94.9	94.9	94.9	94.9	95.1	95.3
≥ 100	81.0	86.3	88.6	90.0	92.2	92.8	93.9	95.2	95.3	95.7	95.7	95.7	95.7	95.7	95.8	96.0
≥ 90	81.0	86.3	88.6	90.0	92.2	92.8	93.9	95.5	95.6	96.0	96.0	96.0	96.0	96.0	96.1	96.3
≥ 80	81.1	86.5	88.7	91.1	92.3	92.9	94.0	95.7	95.8	96.3	96.3	96.3	96.3	96.3	96.5	96.7
≥ 70	81.1	86.6	88.8	91.2	92.4	93.0	94.1	96.0	96.1	97.2	97.2	97.2	97.2	97.2	97.3	97.5
≥ 60	81.1	86.6	88.8	90.2	92.4	93.0	94.1	96.1	96.3	97.7	97.7	97.7	97.7	97.7	97.8	98.1
≥ 50	81.1	86.8	89.7	90.4	92.7	93.3	94.4	96.5	96.7	98.1	98.1	98.1	98.1	98.1	98.2	98.4
≥ 40	81.1	86.9	89.1	91.5	92.8	93.4	94.5	96.6	96.8	98.2	98.2	98.2	98.2	98.2	98.6	99.0
≥ 30	81.1	86.9	89.1	90.5	92.8	93.4	94.5	96.6	96.8	98.2	98.2	98.2	98.2	98.2	98.9	99.5
≥ 20	81.1	86.9	89.1	90.5	92.9	93.5	94.6	96.8	97.1	98.5	98.5	98.5	98.5	98.5	99.4	99.9
≥ 10	81.1	86.9	89.1	91.5	92.9	93.5	94.6	96.8	97.1	98.5	98.5	98.5	98.5	98.5	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 12-54 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
LCAFFTAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-87

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

7600-2877

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	45.2	45.4	45.7	45.7	45.9	46.1	46.1	46.1	46.1	46.1	46.2	46.2	46.2	46.3	46.7	46.8
≥ 20000	51.7	52.4	52.7	52.8	53.0	53.1	53.1	53.2	53.2	53.2	53.3	53.3	53.3	53.4	53.8	53.9
≥ 18000	51.9	52.5	52.8	52.9	53.1	53.2	53.2	53.3	53.3	53.3	53.4	53.4	53.4	53.5	53.9	54.0
≥ 16000	51.1	52.5	52.8	52.9	53.1	53.2	53.2	53.3	53.3	53.3	53.4	53.4	53.4	53.5	53.9	54.0
≥ 14000	52.6	53.2	53.5	53.7	53.9	54.0	54.0	54.1	54.1	54.1	54.2	54.2	54.2	54.3	54.6	54.7
≥ 12000	54.6	55.3	55.6	55.7	55.9	56.0	56.0	56.1	56.1	56.1	56.2	56.2	56.2	56.3	56.7	56.8
≥ 10000	62.4	63.1	63.3	63.4	64.1	64.1	64.1	64.2	64.2	64.2	64.3	64.3	64.3	64.4	64.7	64.8
≥ 9000	62.9	63.5	63.9	64.0	64.5	64.6	64.6	64.7	64.7	64.7	64.8	64.8	64.8	64.9	65.3	65.4
≥ 8000	67.2	67.8	68.2	68.4	68.9	69.1	69.1	69.1	69.1	69.1	69.2	69.2	69.2	69.4	69.7	69.8
≥ 7000	67.8	68.5	68.8	69.0	69.6	69.7	69.7	69.8	69.8	69.8	69.9	69.9	69.9	70.0	70.1	70.4
≥ 6000	68.8	69.5	69.9	70.1	70.6	70.8	70.8	70.9	70.9	70.9	71.0	71.0	71.0	71.1	71.4	71.5
≥ 5000	71.5	72.5	72.9	73.1	73.7	73.8	73.8	73.9	73.9	73.9	74.0	74.0	74.0	74.1	74.4	74.5
≥ 4500	72.7	73.9	74.3	74.6	75.2	75.3	75.3	75.4	75.4	75.4	75.5	75.5	75.5	75.6	75.9	76.0
≥ 4000	74.6	76.2	76.7	77.3	77.8	78.1	78.2	78.3	78.3	78.3	78.4	78.4	78.4	78.5	78.8	78.9
≥ 3500	75.5	77.4	78.3	79.2	80.1	80.5	80.5	80.9	80.9	80.9	81.0	81.0	81.0	81.1	81.4	81.5
≥ 3000	76.6	79.7	80.6	81.7	82.7	83.2	83.5	83.8	83.8	83.8	83.9	83.9	83.9	84.0	84.3	84.4
≥ 2500	77.8	81.6	82.8	84.2	85.7	86.3	86.9	87.1	87.1	87.1	87.2	87.2	87.2	87.3	87.6	87.7
≥ 2000	78.5	82.8	84.3	85.7	87.3	88.1	88.8	89.1	89.1	89.2	89.4	89.4	89.4	89.5	89.8	89.9
≥ 1800	78.8	83.1	84.6	86.0	87.6	88.5	89.2	89.6	89.7	89.8	89.9	89.9	89.9	90.0	90.3	90.4
≥ 1600	79.4	84.1	85.7	87.2	89.1	90.0	90.9	91.6	91.8	92.0	92.2	92.2	92.2	92.3	92.6	92.7
≥ 1400	79.6	84.3	85.9	87.4	89.5	90.3	91.1	92.0	92.3	92.6	92.7	92.7	92.7	92.8	93.1	93.2
≥ 1200	79.7	84.8	86.4	88.5	91.0	91.8	92.9	93.7	94.0	94.4	94.5	94.5	94.6	94.7	95.1	95.2
≥ 1000	79.7	84.9	86.9	88.6	91.1	91.9	93.1	93.8	94.1	94.5	94.6	94.6	94.7	94.8	95.2	95.3
≥ 900	79.8	85.1	87.1	88.7	91.2	92.0	93.1	94.3	94.7	95.2	95.3	95.3	95.4	95.5	95.8	95.9
≥ 800	81.0	85.3	87.2	89.0	91.6	92.5	93.5	95.4	95.8	96.3	96.7	96.7	96.8	96.9	97.2	97.3
≥ 700	81.1	85.5	87.4	89.2	91.8	92.8	93.9	95.7	96.1	96.8	97.2	97.2	97.4	97.6	98.0	98.1
≥ 600	81.0	85.3	87.2	89.0	91.6	92.5	93.5	95.4	95.8	96.3	96.7	96.7	96.8	96.9	97.2	97.3
≥ 500	81.1	85.5	87.4	89.2	91.8	92.8	93.9	95.7	96.1	96.8	97.2	97.2	97.4	97.6	98.0	98.1
≥ 400	81.1	85.6	87.5	89.4	92.0	93.0	94.1	96.1	96.7	97.4	97.8	97.8	98.2	98.4	98.8	99.0
≥ 300	81.1	85.6	87.5	89.4	92.0	93.0	94.1	96.1	96.7	97.4	97.8	97.8	98.2	98.4	98.8	99.0
≥ 200	81.1	85.6	87.5	89.4	92.0	93.0	94.1	96.1	96.7	97.4	97.8	97.8	98.2	98.4	98.8	99.0
≥ 100	81.1	85.6	87.5	89.4	92.0	93.0	94.1	96.1	96.7	97.4	97.8	97.8	98.2	98.4	98.8	99.0
≥ 0	81.1	85.6	87.5	89.4	92.0	93.0	94.1	96.1	96.7	97.4	97.8	97.8	98.2	98.4	98.8	99.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-87

JAN

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-1100

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	42.6	43.4	43.9	44.2	44.6	44.6	44.7	44.8	44.8	44.8	44.8	44.8	44.9	44.9	44.9	44.9
≥ 2000	47.5	48.5	49.8	49.2	49.7	49.7	49.8	49.9	49.9	49.9	49.9	49.9	50.0	50.0	50.0	50.0
≥ 1800	47.8	48.8	49.1	49.6	50.0	50.0	50.1	50.2	50.2	50.2	50.2	50.2	50.3	50.3	50.3	50.3
≥ 1600	48.1	49.0	49.4	49.8	50.2	50.2	50.3	50.4	50.4	50.4	50.4	50.4	50.5	50.5	50.5	50.5
≥ 1400	49.2	50.2	50.5	51.0	51.4	51.4	51.5	51.6	51.6	51.6	51.6	51.6	51.7	51.7	51.7	51.7
≥ 1200	54.4	55.5	55.8	56.2	56.7	56.7	56.8	56.9	56.9	56.9	56.9	56.9	57.0	57.0	57.0	57.0
≥ 1000	62.2	63.3	63.7	64.1	64.5	64.5	64.6	64.7	64.7	64.7	64.7	64.7	64.8	64.8	64.8	64.8
≥ 900	63.0	64.2	64.5	64.9	65.5	65.5	65.8	65.9	65.9	65.9	65.9	65.9	66.0	66.0	66.0	66.0
≥ 800	67.1	68.5	68.9	69.4	70.0	70.0	70.4	70.5	70.5	70.5	70.5	70.5	70.6	70.6	70.6	70.6
≥ 700	69.1	70.5	71.0	71.4	72.0	72.0	72.5	72.6	72.6	72.6	72.6	72.6	72.7	72.7	72.7	72.7
≥ 600	70.5	72.2	72.6	73.1	73.9	73.9	74.4	74.5	74.5	74.5	74.5	74.5	74.6	74.6	74.6	74.6
≥ 500	71.8	73.4	73.9	74.4	75.2	75.2	75.7	75.8	75.8	75.8	75.8	75.8	75.9	75.9	75.9	75.9
≥ 450	72.4	74.4	74.8	75.5	76.2	76.2	76.8	76.9	76.9	76.9	76.9	76.9	77.0	77.0	77.0	77.0
≥ 400	75.4	77.6	78.1	78.7	79.6	79.6	80.1	80.2	80.2	80.2	80.2	80.2	80.3	80.3	80.3	80.3
≥ 350	76.5	79.5	80.3	81.2	82.4	82.4	83.0	83.2	83.2	83.2	83.2	83.2	83.3	83.3	83.3	83.3
≥ 300	76.6	80.0	81.0	81.9	83.5	83.7	84.4	84.6	84.7	85.1	85.1	85.1	85.2	85.2	85.2	85.3
≥ 250	77.2	80.9	81.9	83.3	85.5	85.8	86.9	87.1	87.2	87.6	87.6	87.7	87.7	87.7	87.7	87.8
≥ 200	77.5	81.4	82.5	84.2	86.5	87.0	88.3	88.8	89.0	89.6	89.6	89.7	89.7	89.7	89.8	89.8
≥ 180	77.8	81.5	82.6	84.3	86.6	87.1	88.4	88.9	89.2	89.9	89.9	90.0	90.0	90.0	90.1	90.1
≥ 160	78.0	81.9	83.1	84.9	87.3	88.0	89.4	90.0	90.4	91.3	91.3	91.4	91.4	91.4	91.5	91.5
≥ 140	78.0	82.0	83.5	85.6	88.2	88.8	90.4	91.2	91.7	92.8	92.9	93.1	93.1	93.1	93.2	93.2
≥ 120	78.0	82.3	83.9	85.8	88.5	89.1	90.9	91.7	92.6	94.1	94.1	94.6	94.6	94.6	94.7	94.7
≥ 100	78.1	82.4	83.9	85.9	88.7	89.4	91.1	92.0	92.9	94.5	94.8	95.1	95.1	95.1	95.2	95.2
≥ 80	78.2	82.6	84.1	86.1	88.9	89.6	91.4	92.5	93.3	95.3	95.3	95.8	96.0	96.5	96.7	96.7
≥ 70	78.2	82.6	84.1	86.1	88.9	89.6	91.4	92.5	93.3	95.4	96.1	96.3	96.8	96.9	97.0	97.0
≥ 60	78.2	82.7	84.3	86.5	89.2	89.9	91.7	92.8	93.7	95.8	96.9	97.0	97.5	97.6	97.7	97.7
≥ 50	78.2	82.7	84.3	86.5	89.2	89.9	91.7	92.8	93.7	95.8	96.9	97.0	97.5	97.6	97.7	97.7
≥ 40	78.2	82.7	84.3	86.5	89.2	89.9	91.7	92.8	93.7	95.8	96.9	97.0	97.5	97.6	97.7	97.7
≥ 30	78.2	82.7	84.3	86.5	89.2	89.9	91.7	92.8	93.7	95.8	96.9	97.0	97.5	97.6	97.7	97.7
≥ 20	78.2	82.7	84.3	86.5	89.2	89.9	91.7	92.8	93.7	95.8	96.9	97.0	97.5	97.6	97.7	97.7
≥ 10	78.2	82.7	84.3	86.5	89.2	89.9	91.7	92.8	93.7	95.8	96.9	97.0	97.5	97.6	97.7	97.7
≥ 0	78.3	82.8	84.5	86.8	89.6	90.2	92.2	93.4	94.5	96.8	98.1	98.3	99.0	99.1	99.5	99.5
≥ 0	78.3	82.8	84.5	86.8	89.6	90.2	92.2	93.4	94.5	96.8	98.1	98.3	99.0	99.1	99.5	99.5
≥ 0	78.3	82.8	84.5	86.8	89.6	90.2	92.2	93.4	94.5	96.8	98.1	98.3	99.0	99.1	99.5	99.5
≥ 0	78.3	82.8	84.5	86.8	89.6	90.2	92.2	93.4	94.5	96.8	98.1	98.3	99.0	99.1	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS

930

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-87

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1222-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO. OF OBSERVATIONS	43.1	44.1	44.1	44.3	44.4	44.4	44.4	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
≥2000	57.9	52.0	52.2	52.4	52.6	52.6	52.6	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
1800	51.2	52.4	52.5	52.7	52.9	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
1600	51.6	52.8	52.9	53.1	53.3	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
1400	52.6	53.8	53.9	54.1	54.3	54.3	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
1200	58.4	59.7	59.8	60.1	60.3	60.3	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
1000	67.3	68.6	68.8	69.1	69.4	69.4	69.4	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
800	67.8	69.1	69.4	69.7	70.0	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
600	72.6	74.0	74.2	74.7	75.2	75.2	75.4	75.5	75.5	75.7	75.7	75.7	75.7	75.7	75.7	75.7
400	74.5	75.9	76.2	76.8	77.2	77.2	77.4	77.5	77.5	77.7	77.7	77.7	77.7	77.7	77.7	77.7
200	75.8	77.5	77.8	78.7	79.1	79.1	79.4	79.5	79.6	79.8	79.8	79.8	79.8	79.8	79.8	79.8
100	76.8	78.5	79.8	79.7	80.1	80.1	80.3	80.4	80.5	80.8	80.8	80.8	80.8	80.8	80.8	80.8
50	77.1	78.9	79.5	80.4	81.0	81.0	81.2	81.3	81.4	81.6	81.6	81.6	81.6	81.6	81.6	81.6
25	78.5	80.4	81.7	82.2	82.9	82.9	83.1	83.2	83.4	83.7	83.7	83.7	83.7	83.7	83.7	83.7
15	79.6	81.7	82.8	84.3	85.2	85.2	85.4	85.5	85.7	85.9	85.9	85.9	85.9	85.9	85.9	85.9
10	80.7	82.6	83.8	85.5	87.2	87.2	87.6	88.1	88.4	88.7	88.7	88.7	88.7	88.7	88.7	88.7
5	81.7	82.6	84.2	86.1	88.1	88.5	89.4	89.9	90.2	90.9	90.9	90.9	90.9	90.9	90.9	90.9
2	82.7	82.7	84.4	86.9	88.8	89.5	90.6	91.3	91.8	92.6	92.7	92.7	92.7	92.7	92.7	92.7
1	82.7	82.9	84.6	87.3	89.2	89.9	91.3	92.0	92.6	93.3	93.4	93.4	93.4	93.4	93.4	93.4
0.5	80.2	82.9	84.6	87.3	89.5	90.4	92.2	92.9	93.4	94.5	94.7	94.7	94.7	94.7	94.7	94.7
0.2	80.2	83.1	84.9	87.6	89.8	90.8	92.9	93.9	94.4	96.2	96.7	96.7	96.8	96.8	96.8	96.8
0.1	81.2	83.4	85.2	88.1	90.2	91.2	93.3	94.4	94.9	96.9	97.3	97.4	97.5	97.6	97.6	97.6
0.05	80.2	83.4	85.2	88.1	90.2	91.2	93.4	94.5	95.1	97.3	97.8	98.0	98.1	98.2	98.2	98.2
0.02	80.2	83.4	85.2	88.3	90.6	91.6	93.9	95.1	95.6	98.0	98.5	98.7	98.9	99.0	99.1	99.1
0.01	81.2	83.4	85.2	88.3	90.6	91.6	93.9	95.1	95.6	98.0	98.5	98.8	99.0	99.1	99.5	99.5
0.005	80.2	83.4	85.2	88.3	90.6	91.6	93.9	95.1	95.6	98.0	98.6	98.9	99.1	99.2	99.6	99.6
0.002	81.2	83.4	85.2	88.3	90.6	91.6	93.9	95.2	95.8	98.2	98.8	99.2	99.5	99.7	100.0	100.0
0.001	80.2	83.4	85.2	88.3	90.6	91.6	93.9	95.2	95.8	98.2	98.8	99.2	99.5	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
ATC WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-93

JAN

STATION

STATION NAME

YEAR

1970-1970

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET		VISIBILITY - STATUTE MILES															
		2.0	2.6	2.9	3.4	3.8	4.3	4.8	5.4	6.0	6.6	7.2	7.9	8.6	9.3	10.0	20
1	2000	42.2	42.6	43.7	43.2	43.4	43.5	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
2	1800	51.4	52.3	52.9	53.7	53.2	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
3	1600	52.2	53.0	53.5	53.8	54.0	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
4	1400	52.4	53.2	53.8	54.0	54.2	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
5	1200	54.2	55.1	55.6	55.8	56.7	56.1	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
6	1000	59.8	60.6	61.2	61.4	61.6	61.7	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
7	800	68.1	69.1	69.9	70.2	71.4	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
8	600	69.9	71.1	71.8	72.2	72.4	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
9	400	73.7	75.2	76.3	76.7	77.0	77.2	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
10	200	76.3	77.8	79.1	79.6	79.9	80.1	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
11	100	77.6	79.2	80.5	81.0	81.3	81.5	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
12	50	78.7	80.3	81.7	82.3	82.7	83.0	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
13	25	79.7	80.6	82.0	82.6	83.0	83.3	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
14	10	79.8	81.5	83.1	83.8	84.7	85.2	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
15	5	80.5	82.4	84.4	84.9	85.9	86.5	86.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
16	2	80.5	83.0	84.9	85.6	87.7	88.6	89.2	89.7	89.7	89.8	89.7	89.7	89.7	89.7	89.7	89.7
17	1	80.9	83.4	85.4	86.7	88.9	89.9	90.8	91.1	91.2	91.4	91.6	91.6	91.6	91.6	91.6	91.6
18	0	80.9	83.5	85.5	86.9	89.5	90.6	91.5	92.0	92.2	92.6	92.9	92.9	92.9	92.9	92.9	92.9
19	0	81.1	84.0	85.9	87.5	90.2	91.5	92.4	93.3	93.8	94.3	94.6	94.6	94.6	94.6	94.6	94.6
20	0	81.4	84.4	86.3	88.1	90.9	92.3	93.1	94.2	94.6	95.3	95.8	95.8	95.8	95.8	95.8	95.8
21	0	81.4	84.5	86.5	88.3	91.1	92.6	93.4	94.6	95.1	96.7	96.6	96.6	96.7	96.7	96.7	96.7
22	0	81.4	84.6	86.6	88.5	91.4	92.9	93.8	94.9	95.4	96.3	97.0	97.0	97.1	97.1	97.1	97.1
23	0	81.4	84.6	86.6	88.6	91.5	93.7	93.9	95.1	95.6	96.8	97.5	97.5	97.6	97.6	97.6	97.6
24	0	81.4	84.6	86.6	88.7	91.6	93.2	94.2	95.5	96.7	97.5	98.3	98.3	98.4	98.4	98.4	98.4
25	0	81.5	84.8	86.8	88.9	91.8	93.4	94.5	95.9	96.5	98.1	98.9	98.9	99.7	99.7	99.7	99.7
26	0	81.5	84.8	86.8	88.9	91.8	93.4	94.5	96.2	96.8	98.6	99.5	99.5	99.6	99.6	99.6	99.6
27	0	81.5	84.8	86.8	88.9	91.8	93.4	94.5	96.2	96.8	98.6	99.5	99.5	99.6	99.6	99.6	99.6
28	0	81.5	84.8	86.8	88.9	91.8	93.4	94.5	96.2	96.8	98.6	99.5	99.5	99.6	99.6	99.6	99.6
29	0	81.5	84.8	86.8	88.9	91.8	93.4	94.5	96.2	96.8	98.6	99.5	99.5	99.6	99.6	99.6	99.6
30	0	81.5	84.8	86.8	88.9	91.8	93.4	94.5	96.2	96.8	98.6	99.5	99.5	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 932

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

707755

MALMSTROM AFB MT

74-87

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2200

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥8	≥6	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
≥2000	46.5	47.5	47.7	48.2	48.3	48.3	48.7	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.4	48.4
≥1800	52.9	54.1	54.3	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.9	54.9
≥1600	53.1	54.3	54.5	54.9	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.2	55.2
≥1400	53.3	54.5	54.7	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.4	55.4
≥1200	54.7	55.2	55.4	55.8	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	56.0	56.0
≥1000	59.1	60.3	60.5	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.3	61.3
≥900	68.7	70.2	70.4	71.0	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.2	71.2
≥800	69.8	71.5	71.7	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.5	72.5
≥700	73.4	75.3	75.5	76.0	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.3	76.3
≥600	76.7	78.5	78.8	79.4	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.7	79.7
≥500	77.6	79.6	79.9	80.5	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.9	80.9
≥450	78.5	81.1	81.4	82.0	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.5	82.5
≥400	78.8	81.5	81.8	82.5	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.9	82.9
≥350	81.4	83.7	84.0	84.7	85.2	85.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.4	85.4
≥300	81.2	84.6	85.1	85.8	86.6	86.7	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.5	87.5
≥250	81.7	86.3	86.6	87.4	88.7	89.0	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	90.0	90.0
≥200	82.6	87.1	87.6	88.8	90.2	90.6	91.8	92.2	92.3	92.4	92.4	92.4	92.4	92.4	92.5	92.5
≥150	82.9	87.7	88.4	89.6	91.0	91.4	92.7	93.0	93.2	93.4	93.4	93.4	93.4	93.4	93.5	93.5
≥100	82.9	87.8	88.6	89.8	91.2	91.6	92.9	93.2	93.4	93.7	93.7	93.7	93.7	93.7	93.8	93.8
≥75	83.0	88.1	88.8	90.1	91.6	92.0	93.3	93.8	94.0	94.5	94.5	94.5	94.5	94.5	94.6	94.6
≥50	83.0	88.2	89.2	90.5	92.2	92.8	94.2	94.7	94.9	95.6	95.6	95.6	95.6	95.6	95.7	95.7
≥25	83.2	88.5	89.6	90.9	93.0	93.8	95.3	95.9	96.2	97.2	97.3	97.3	97.4	97.4	97.5	97.5
≥10	83.2	88.7	89.9	91.2	93.3	94.1	95.6	96.3	96.7	97.6	97.7	97.7	97.7	97.8	98.0	98.0
≥5	83.3	88.8	90.0	91.3	93.4	94.2	95.7	96.9	97.2	98.2	98.3	98.3	98.5	98.5	98.6	98.6
≥2	83.3	88.8	90.0	91.3	93.5	94.3	95.8	97.1	97.4	98.4	98.5	98.5	98.8	98.8	98.9	98.9
≥1	83.3	88.8	90.0	91.3	93.5	94.3	95.8	97.1	97.4	98.4	98.5	98.5	98.8	98.8	98.9	98.9
≥0	83.3	88.8	90.0	91.3	93.5	94.3	95.8	97.1	97.4	98.4	98.5	98.5	98.8	98.8	98.9	98.9

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 10-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-97

JAN

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	46.5	47.2	47.6	48.1	48.2	48.2	48.5	48.5	48.5	48.6	48.6	48.6	48.7	48.7	48.7	48.7
≥ 20000	51.9	52.9	53.5	54.0	54.3	54.3	54.6	54.6	54.6	54.7	54.7	54.7	54.8	54.8	54.8	54.8
≥ 18000	51.9	52.9	53.5	54.0	54.3	54.3	54.6	54.6	54.6	54.7	54.7	54.7	54.8	54.8	54.8	54.8
≥ 16000	51.9	52.9	53.5	54.0	54.3	54.3	54.6	54.6	54.6	54.7	54.7	54.7	54.8	54.8	54.8	54.8
≥ 14000	52.4	53.3	54.0	54.4	54.7	54.7	55.1	55.1	55.1	55.2	55.2	55.2	55.3	55.3	55.3	55.3
≥ 12000	57.2	58.2	58.8	59.4	59.7	59.7	60.0	60.0	60.0	60.1	60.1	60.1	60.2	60.2	60.2	60.2
≥ 10000	65.8	67.1	67.8	68.4	68.7	68.7	69.0	69.0	69.0	69.1	69.1	69.1	69.2	69.2	69.2	69.2
≥ 9000	66.8	68.1	68.8	69.4	69.7	69.8	70.1	70.1	70.1	70.2	70.2	70.2	70.3	70.3	70.3	70.3
≥ 8000	71.8	73.4	74.2	74.7	75.1	75.2	75.5	75.5	75.5	75.6	75.6	75.6	75.7	75.7	75.7	75.7
≥ 7000	74.7	75.8	76.6	77.1	77.4	77.5	77.8	77.8	77.8	78.0	78.0	78.0	78.1	78.1	78.1	78.1
≥ 6000	74.9	76.8	77.7	78.3	78.6	78.7	79.0	79.0	79.0	79.1	79.1	79.1	79.2	79.2	79.2	79.2
≥ 5000	76.0	77.8	78.8	79.4	79.7	79.8	80.1	80.1	80.1	80.2	80.2	80.2	80.3	80.3	80.3	80.3
≥ 4500	76.2	78.1	79.0	79.7	80.0	80.1	80.4	80.4	80.4	80.5	80.5	80.5	80.6	80.6	80.6	80.6
≥ 4000	78.8	80.8	81.9	82.7	83.1	83.2	83.5	83.5	83.5	83.7	83.7	83.7	83.8	83.8	83.8	83.8
≥ 3500	79.5	82.0	83.4	84.4	85.4	85.5	86.2	86.2	86.2	86.3	86.3	86.3	86.5	86.5	86.5	86.5
≥ 3000	81.6	84.2	85.6	86.6	87.7	87.8	88.6	88.6	88.6	88.7	88.7	88.7	88.8	88.8	88.8	88.8
≥ 2500	81.5	85.6	87.2	88.4	89.9	90.2	91.0	91.5	91.7	91.8	91.8	91.8	91.9	91.9	91.9	91.9
≥ 2000	82.3	86.6	88.4	89.6	91.2	91.5	92.4	92.9	93.1	93.4	93.4	93.4	93.5	93.5	93.5	93.5
≥ 1800	82.3	86.7	88.5	89.7	91.3	91.6	92.5	93.0	93.2	93.5	93.5	93.5	93.7	93.7	93.7	93.7
≥ 1500	82.4	86.9	88.7	89.9	91.8	92.2	93.3	94.1	94.3	94.7	94.7	94.7	94.8	94.8	94.8	94.8
≥ 1200	82.6	87.6	89.8	91.0	93.1	93.4	94.7	95.7	95.9	96.7	96.7	96.7	96.8	96.8	96.8	96.8
≥ 1000	82.6	87.6	89.8	91.0	93.3	93.9	95.4	96.8	97.0	97.7	97.7	97.7	97.8	97.8	97.8	97.8
≥ 900	82.6	87.7	90.0	91.2	93.5	94.1	95.6	97.2	97.4	98.2	98.3	98.3	98.4	98.4	98.4	98.4
≥ 800	82.7	88.0	90.2	91.4	93.9	94.4	95.9	97.7	98.0	98.9	99.0	99.0	99.1	99.1	99.1	99.1
≥ 700	82.7	88.0	90.2	91.4	93.9	94.4	95.9	97.8	98.1	99.0	99.2	99.2	99.4	99.4	99.4	99.4
≥ 600	82.7	88.0	90.2	91.5	94.0	94.5	96.1	98.1	98.3	99.4	99.6	99.6	99.7	99.7	99.7	99.7
≥ 500	82.7	88.0	90.2	91.5	94.1	94.6	96.2	98.2	98.4	99.5	99.7	99.7	99.8	99.8	99.8	99.8
≥ 400	82.7	88.0	90.2	91.5	94.1	94.6	96.2	98.2	98.4	99.5	99.7	99.7	99.8	99.8	99.8	99.8
≥ 300	82.7	88.0	90.2	91.5	94.1	94.6	96.2	98.2	98.4	99.5	99.7	99.7	99.8	99.8	99.8	99.8
≥ 200	82.7	88.0	90.2	91.5	94.1	94.6	96.2	98.2	98.4	99.5	99.8	99.8	99.9	99.9	100.0	100.0
≥ 100	82.7	88.0	90.2	91.5	94.1	94.6	96.2	98.2	98.4	99.5	99.8	99.8	99.9	99.9	100.0	100.0
≥ 0	82.7	88.0	90.2	91.5	94.1	94.6	96.2	98.2	98.4	99.5	99.8	99.8	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

77755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEAR

JAN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL
SOURCES

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	45.2	46.0	46.3	46.6	46.8	46.9	47.1	47.0	47.0	47.0	47.1	47.1	47.1	47.1	47.2	47.2
≥20000	51.6	52.6	52.9	53.2	53.5	53.6	53.7	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.9	53.9
≥18000	51.8	52.8	53.2	53.4	53.8	53.8	53.9	54.0	54.0	54.0	54.0	54.0	54.0	54.1	54.1	54.2
≥16000	52.7	53.0	53.3	53.6	53.9	53.9	54.1	54.1	54.1	54.1	54.1	54.2	54.2	54.2	54.3	54.3
≥14000	52.8	53.9	54.2	54.5	54.8	54.8	55.0	55.0	55.0	55.0	55.0	55.1	55.1	55.1	55.2	55.2
≥12000	56.9	58.0	58.3	58.6	59.0	59.0	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.3	59.3	59.4
≥10000	65.6	66.8	67.2	67.6	68.0	68.0	68.2	68.2	68.2	68.3	68.3	68.3	68.3	68.3	68.4	68.4
≥9000	66.5	67.8	68.2	68.6	69.0	69.1	69.3	69.3	69.3	69.4	69.4	69.4	69.4	69.4	69.5	69.5
≥8000	70.9	72.4	72.9	73.3	73.8	73.9	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.3	74.3	74.4
≥7000	72.8	74.3	74.9	75.3	75.8	75.8	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.3	76.3	76.4
≥6000	73.7	75.3	76.0	76.5	77.0	77.0	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.5	77.5	77.6
≥5000	75.1	76.9	77.6	78.1	78.6	78.7	79.0	79.0	79.1	79.1	79.1	79.1	79.2	79.2	79.2	79.3
≥4500	75.7	77.6	78.4	79.9	79.5	79.5	79.8	79.9	79.9	79.9	79.9	80.0	80.0	80.0	80.1	80.1
≥4000	77.6	79.8	80.7	81.3	82.0	82.2	82.5	82.6	82.6	82.6	82.7	82.7	82.7	82.7	82.8	82.8
≥3500	78.5	81.2	82.3	83.1	84.0	84.2	84.8	84.9	85.0	85.0	85.0	85.0	85.1	85.1	85.1	85.2
≥3000	79.2	82.6	83.9	84.8	86.1	86.4	87.2	87.4	87.5	87.6	87.7	87.7	87.7	87.7	87.8	87.8
≥2500	79.9	83.6	85.0	86.2	87.8	88.3	89.2	89.6	89.7	89.9	90.0	90.0	90.0	90.0	90.1	90.2
≥2000	80.4	84.3	85.8	87.3	89.0	89.6	90.7	91.1	91.3	91.7	91.7	91.8	91.8	91.8	91.9	91.9
≥1800	80.5	84.4	86.0	87.5	89.3	89.9	90.9	91.4	91.6	92.0	92.1	92.1	92.1	92.1	92.2	92.2
≥1600	80.9	85.1	86.7	88.3	90.3	90.9	92.1	92.8	93.1	93.6	93.7	93.7	93.7	93.7	93.8	93.9
≥1400	81.0	85.4	87.2	88.8	91.0	91.7	93.0	93.8	94.2	94.9	95.0	95.0	95.1	95.1	95.1	95.2
≥1200	81.0	85.6	87.5	89.2	91.5	92.3	93.7	94.7	95.1	96.1	96.3	96.3	96.4	96.4	96.5	96.5
≥900	81.1	85.7	87.6	89.4	91.7	92.5	93.9	95.0	95.4	96.4	96.7	96.7	96.8	96.8	96.9	97.0
≥800	81.1	85.8	87.7	89.4	91.8	92.6	94.1	95.4	95.8	96.9	97.2	97.3	97.4	97.4	97.5	97.6
≥700	81.2	85.8	87.7	89.5	91.9	92.8	94.2	95.6	96.0	97.3	97.6	97.7	97.8	97.9	98.0	98.0
≥600	81.2	85.9	87.8	89.6	92.1	92.9	94.4	95.9	96.3	97.7	98.1	98.2	98.4	98.4	98.5	98.6
≥500	81.2	85.9	87.9	89.7	92.1	93.0	94.5	96.1	96.6	98.1	98.5	98.6	98.8	98.9	99.0	99.1
≥400	81.2	86.0	87.9	89.7	92.2	93.0	94.6	96.2	96.7	98.3	98.7	98.8	99.1	99.1	99.3	99.4
≥300	81.2	86.0	87.9	89.8	92.3	93.1	94.7	96.3	96.8	98.3	98.8	98.9	99.2	99.3	99.5	99.6
≥200	81.2	86.0	87.9	89.8	92.3	93.1	94.7	96.3	96.8	98.3	98.8	98.9	99.3	99.4	99.7	99.8
≥100	81.2	86.0	87.9	89.8	92.3	93.1	94.7	96.3	96.8	98.4	98.9	99.0	99.4	99.5	99.8	99.9
≥0	81.2	86.0	87.9	89.8	92.3	93.1	94.7	96.3	96.8	98.4	98.9	99.0	99.4	99.5	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 7440

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ATP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-83

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

7200-2200
HOURLY

CEILING FEET	VISIBILITY: STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ 0
NO CEILING	48.6	50.2	50.5	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
≥ 20000	55.9	57.7	57.9	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 18000	56.0	57.8	58.0	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
≥ 16000	56.3	58.0	58.3	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
≥ 14000	56.6	58.4	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 12000	61.6	63.4	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	64.1	64.1
≥ 10000	69.5	70.8	71.0	71.2	71.3	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.7	71.7
≥ 9000	77.2	72.0	72.2	72.3	72.5	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.9	72.9
≥ 8000	73.3	75.3	75.5	75.7	75.8	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	76.2	76.2
≥ 7000	74.1	76.1	76.4	76.5	76.6	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	77.1	77.1
≥ 6000	75.4	77.4	77.7	77.8	77.9	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.4	78.4
≥ 5000	76.4	78.6	78.8	79.0	79.1	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.6	79.6
≥ 4500	77.0	79.2	79.4	79.6	79.7	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	80.1	80.1
≥ 4000	78.9	81.3	81.7	81.8	81.9	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.4	82.4
≥ 3500	79.6	82.4	83.1	83.2	83.5	83.6	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	84.0	84.0
≥ 3000	80.4	83.7	84.5	84.8	85.2	85.3	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.8	85.8
≥ 2500	81.2	84.9	86.2	86.5	87.0	87.4	87.7	87.7	87.7	87.7	87.8	87.8	87.8	87.8	88.2	88.2
≥ 2000	81.3	85.2	86.6	87.2	88.1	88.4	89.0	89.4	89.4	89.5	89.5	89.5	89.5	89.5	89.8	89.8
≥ 1800	81.3	85.2	86.6	87.2	88.1	88.4	89.0	89.4	89.4	89.5	89.5	89.5	89.5	89.5	89.8	89.8
≥ 1600	81.3	85.5	87.1	87.9	88.8	89.1	89.8	90.3	90.4	90.8	90.8	90.8	90.8	90.8	91.1	91.1
≥ 1400	81.3	85.6	87.2	88.2	89.0	89.5	90.3	91.0	91.3	91.6	91.6	91.6	91.6	91.6	92.0	92.0
≥ 1200	81.3	85.6	87.4	88.3	89.2	90.1	91.0	91.7	92.3	92.7	92.7	92.7	92.7	92.7	93.0	93.0
≥ 1000	81.4	85.7	87.6	88.5	89.5	90.3	91.3	92.0	92.6	92.9	92.9	92.9	92.9	92.9	93.3	93.3
≥ 900	81.4	85.7	87.6	88.5	89.5	90.3	91.3	92.0	92.6	92.9	92.9	92.9	92.9	92.9	93.3	93.3
≥ 800	81.6	85.8	87.7	88.7	89.6	90.4	91.4	92.1	92.7	93.1	93.3	93.3	93.3	93.3	93.6	93.6
≥ 700	81.7	86.4	88.3	89.4	90.3	91.1	92.2	92.9	93.6	94.2	94.3	94.3	94.3	94.3	94.7	94.7
≥ 600	81.7	86.4	88.3	89.4	90.3	91.3	92.3	93.5	94.3	95.0	95.2	95.2	95.2	95.2	95.5	95.5
≥ 500	81.7	86.6	88.5	89.6	90.5	91.6	92.7	94.1	94.9	95.9	96.0	96.0	96.0	96.0	96.3	96.3
≥ 400	81.9	86.9	88.8	90.0	90.9	92.0	93.1	94.6	95.4	96.3	96.5	96.5	96.5	96.5	96.8	96.8
≥ 300	81.9	87.1	89.0	90.3	91.4	92.4	94.0	95.5	96.3	97.5	97.6	97.6	97.6	97.6	98.1	98.1
≥ 200	81.9	87.1	89.0	90.3	91.4	92.4	94.0	95.5	96.3	97.5	97.6	97.6	97.6	97.6	98.1	98.1
≥ 100	81.9	87.1	89.0	90.3	91.4	92.4	94.0	95.5	96.3	97.5	97.6	97.6	97.6	97.6	98.1	98.1
≥ 0	81.9	87.1	89.0	90.3	91.4	92.4	94.0	95.5	96.3	97.5	97.6	97.6	97.6	97.6	98.1	98.1

TOTAL NUMBER OF OBSERVATIONS 846

USAF ETAC FORM 10-64 0-14-5 (DL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

FEB
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0320-2500
DATE

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	46.2	47.0	47.2	47.2	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.5	47.5	47.8
≥ 20000	55.1	56.0	56.1	56.1	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.5	56.5	56.7
≥ 18000	55.3	56.3	56.4	56.4	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.7	56.7	57.0
≥ 16000	55.8	56.7	56.9	56.9	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.2	57.2	57.4
≥ 14000	56.3	57.2	57.3	57.3	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.7	57.7	57.9
≥ 12000	61.2	62.3	62.4	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.8	62.8	63.0
≥ 10000	67.4	68.7	68.8	68.8	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.3	69.3	69.5
≥ 9000	68.1	69.5	69.6	69.6	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	70.1	70.1	70.3
≥ 8000	71.8	72.6	72.7	72.7	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.2	73.2	73.4
≥ 7000	71.7	73.5	73.6	73.6	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	74.1	74.1	74.3
≥ 6000	72.9	74.7	74.8	74.8	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.3	75.3	75.5
≥ 5000	74.3	76.4	76.5	76.5	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	77.0	77.0	77.2
≥ 4500	74.9	77.2	77.4	77.4	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.9	77.9	78.1
≥ 4000	77.5	80.1	80.6	80.6	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.2	81.2	81.4
≥ 3500	78.5	81.6	82.4	82.5	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.2	83.2	83.5
≥ 3000	79.7	83.3	84.0	85.1	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	86.2	86.2	86.4
≥ 2500	80.9	84.5	86.5	87.1	87.8	88.1	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.5	88.5	88.8
≥ 2000	81.6	85.3	87.5	87.9	88.8	89.1	89.5	89.8	89.8	89.8	89.8	89.8	89.8	90.1	90.1	90.3
≥ 1800	81.7	85.5	87.6	88.1	88.9	89.2	89.6	90.0	90.0	90.0	90.0	90.0	90.0	90.2	90.2	90.4
≥ 1500	82.3	86.3	88.4	88.9	89.8	90.3	90.9	91.5	91.5	91.5	91.6	91.6	91.6	91.8	91.8	92.1
≥ 1200	82.3	86.5	88.8	89.5	90.5	91.1	91.7	92.3	92.4	92.6	92.7	92.7	92.7	92.9	92.9	93.1
≥ 1000	82.5	86.9	89.2	90.0	91.4	92.0	92.8	93.9	94.0	94.3	94.4	94.4	94.4	94.7	94.7	94.9
≥ 900	82.9	87.2	89.6	90.3	91.7	92.3	93.1	94.2	94.3	94.8	94.9	94.9	94.9	95.2	95.2	95.4
≥ 800	83.0	87.4	89.7	90.4	91.8	92.4	93.3	94.4	94.6	95.2	95.3	95.3	95.3	95.5	95.5	95.7
≥ 700	83.1	87.5	89.8	90.5	92.0	92.6	93.6	95.2	95.3	96.0	96.1	96.1	96.1	96.3	96.3	96.6
≥ 600	83.1	87.5	89.8	90.5	92.0	92.6	93.6	95.3	95.4	96.2	96.3	96.3	96.3	96.6	96.6	96.8
≥ 500	83.1	87.5	89.8	90.5	92.0	92.6	93.9	95.5	95.9	96.8	96.9	96.9	96.9	97.2	97.2	97.4
≥ 400	83.5	87.8	90.2	90.9	92.3	92.9	94.3	96.0	96.3	97.3	97.4	97.4	97.4	97.6	97.6	97.9
≥ 300	83.5	87.8	90.4	91.1	92.6	93.1	94.7	96.3	96.7	97.6	97.8	97.8	97.8	98.2	98.2	98.5
≥ 200	83.5	87.8	90.4	91.3	92.7	93.3	94.9	96.6	96.9	97.9	98.1	98.1	98.1	98.6	98.6	98.9
≥ 100	83.5	87.8	90.4	91.3	92.7	93.3	94.9	96.6	97.0	98.0	98.3	98.3	98.3	98.8	98.8	99.5
≥ 0	83.5	87.8	90.4	91.3	92.7	93.3	94.9	96.6	97.0	98.0	98.3	98.3	98.3	98.8	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 846

USAF ETAC FORM 0-14-5 (DL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

727755
STATION

HALMSTROM AFB MT
STATION NAME

74-83
YEAR

FEB
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

670-0870
NO. OF OBS.

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.0	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	41.1	41.8	42.1	42.1	42.1	42.1	42.1	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.4	42.4
≥ 20000	48.0	48.7	48.9	48.9	48.9	48.9	48.9	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.3	49.3
≥ 18000	48.2	48.9	49.2	49.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.5	49.5
≥ 16000	48.2	48.9	49.2	49.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.5	49.5
≥ 14000	49.3	50.0	50.2	50.2	50.2	50.2	50.2	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.6	50.6
≥ 12000	55.0	55.7	55.9	55.9	55.9	55.9	55.9	56.0	56.0	56.3	56.3	56.3	56.3	56.3	56.5	56.5
≥ 10000	66.2	67.1	67.4	67.5	67.5	67.5	67.5	67.6	67.6	67.8	67.8	67.8	67.8	67.8	68.1	68.1
≥ 9000	68.2	69.1	69.4	69.5	69.5	69.5	69.5	69.6	69.6	69.9	69.9	69.9	69.9	69.9	70.1	70.1
≥ 8000	73.0	74.5	74.8	74.9	74.9	74.9	74.9	75.1	75.1	75.3	75.3	75.3	75.3	75.3	75.5	75.5
≥ 7000	74.5	76.1	76.5	76.6	76.6	76.6	76.6	76.7	76.7	77.0	77.0	77.0	77.0	77.0	77.2	77.2
≥ 6000	75.1	76.7	77.1	77.2	77.2	77.2	77.2	77.3	77.3	77.5	77.5	77.5	77.5	77.5	77.8	77.8
≥ 5000	76.7	78.5	78.8	79.0	79.0	79.0	79.0	79.1	79.1	79.3	79.3	79.3	79.3	79.3	79.6	79.6
≥ 4500	77.3	79.1	79.4	79.7	79.7	79.7	79.7	79.8	79.8	80.0	80.0	80.0	80.0	80.0	80.3	80.3
≥ 4000	78.6	80.6	81.1	81.7	81.7	81.7	81.7	81.8	81.8	82.0	82.0	82.0	82.0	82.0	82.3	82.3
≥ 3500	79.1	81.4	82.4	83.0	83.0	83.0	83.0	83.1	83.1	83.3	83.3	83.3	83.3	83.3	83.6	83.6
≥ 3000	79.9	82.4	83.5	84.0	84.0	84.0	84.0	84.2	84.4	84.4	84.6	84.6	84.6	84.6	84.9	84.9
≥ 2500	81.2	83.7	84.9	85.6	85.7	85.8	85.9	86.2	86.2	86.5	86.5	86.5	86.5	86.5	86.8	86.8
≥ 2000	81.9	84.5	85.9	86.6	86.8	87.0	87.2	87.6	87.7	88.1	88.1	88.1	88.2	88.2	88.4	88.4
≥ 1800	82.0	84.8	86.2	86.9	87.1	87.4	87.6	87.9	88.2	88.5	88.5	88.5	88.7	88.7	88.9	88.9
≥ 1500	82.3	85.2	87.0	87.8	88.3	88.7	89.2	89.8	90.1	90.5	90.5	90.5	90.7	90.7	90.9	90.9
≥ 1200	82.9	85.8	87.7	88.9	89.5	90.0	91.0	91.6	92.0	92.6	92.6	92.6	92.8	92.8	93.0	93.0
≥ 1000	83.6	86.5	88.7	90.0	90.9	91.5	92.7	93.4	93.9	94.6	94.7	94.8	95.0	95.0	95.4	95.4
≥ 900	83.7	86.8	88.9	90.2	91.3	91.8	93.0	93.7	94.2	94.9	95.0	95.2	95.4	95.4	95.7	95.7
≥ 800	83.7	86.8	88.9	90.3	91.5	92.1	93.3	94.0	94.4	95.2	95.4	95.5	95.7	95.7	96.1	96.1
≥ 700	83.7	86.8	88.9	90.3	91.6	92.2	93.5	94.2	94.7	95.4	95.7	95.9	96.1	96.1	96.5	96.5
≥ 600	83.7	86.8	89.1	90.5	91.8	92.4	93.9	94.6	95.2	95.9	96.2	96.3	96.6	96.6	96.9	96.9
≥ 500	83.7	87.0	89.4	90.9	92.3	92.9	94.3	95.0	95.6	96.3	96.8	96.9	97.3	97.3	97.6	97.6
≥ 400	83.8	87.4	89.7	91.3	92.8	93.4	94.8	95.6	96.2	96.9	97.4	97.5	97.9	97.9	98.2	98.2
≥ 300	83.8	87.4	89.7	91.3	92.9	93.5	94.9	95.7	96.3	97.0	97.6	97.8	98.2	98.2	98.6	98.6
≥ 200	83.8	87.4	89.7	91.4	93.1	93.7	95.2	96.1	96.7	97.4	98.0	98.1	98.8	98.8	99.2	99.2
≥ 100	83.8	87.4	89.7	91.4	93.1	93.7	95.2	96.1	96.8	97.5	98.1	98.2	99.1	99.1	99.4	100.0
≥ 0	83.8	87.4	89.7	91.4	93.1	93.7	95.2	96.1	96.8	97.5	98.1	98.2	99.1	99.1	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 846

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MAHMSTROM AFB MT

74-87

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1990-1100
-0505

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	40.2	40.9	41.1	41.5	41.6	41.7	41.7	41.8	42.0	42.1	42.1	42.1	42.1	42.1	42.7	42.7
≥ 20000	45.6	46.5	46.7	47.3	47.5	47.6	47.6	47.8	47.9	48.2	48.2	48.2	48.2	48.2	48.6	48.6
≥ 18000	45.9	46.7	46.9	47.5	47.8	47.9	47.9	48.0	48.1	48.2	48.2	48.2	48.2	48.2	48.8	48.8
≥ 16000	45.9	46.7	46.9	47.5	47.8	47.9	47.9	48.0	48.1	48.2	48.2	48.2	48.2	48.2	48.8	48.8
≥ 14000	49.2	50.0	50.2	50.8	51.1	51.2	51.2	51.3	51.4	51.5	51.5	51.5	51.5	51.5	52.1	52.1
≥ 12000	57.7	57.8	58.7	58.6	58.9	59.7	59.7	59.1	59.2	59.3	59.3	59.3	59.3	59.3	59.9	59.9
≥ 10000	66.4	67.3	67.5	68.1	68.3	68.4	68.4	68.6	68.7	68.8	68.8	68.8	68.8	68.8	69.4	69.4
≥ 9000	68.9	69.7	70.0	70.6	70.8	70.9	70.9	71.0	71.2	71.3	71.3	71.3	71.3	71.3	71.9	71.9
≥ 8000	73.4	74.2	74.5	75.3	75.7	75.8	75.9	76.0	76.1	76.2	76.2	76.2	76.2	76.2	76.8	76.8
≥ 7000	74.5	75.8	76.7	77.1	77.4	77.5	77.7	77.8	77.9	78.0	78.0	78.0	78.0	78.0	78.6	78.6
≥ 6000	75.4	76.7	77.7	78.0	78.4	78.5	78.6	78.7	78.8	79.0	79.0	79.0	79.0	79.0	79.6	79.6
≥ 5000	76.6	78.5	78.8	80.0	80.5	80.6	80.9	81.0	81.1	81.3	81.3	81.3	81.3	81.3	81.9	81.9
≥ 4500	77.3	79.3	79.7	81.0	81.4	81.6	81.8	81.9	82.7	82.3	82.3	82.3	82.3	82.3	82.9	82.9
≥ 4000	78.8	81.1	81.4	83.0	83.0	84.2	84.5	84.6	84.8	85.0	85.0	85.0	85.0	85.0	85.6	85.6
≥ 3500	79.3	81.8	82.2	83.9	84.9	85.1	85.5	85.6	85.7	85.9	85.9	85.9	85.9	85.9	86.6	86.6
≥ 3000	80.7	82.7	83.1	84.9	86.1	86.5	87.7	87.2	87.5	87.8	87.8	87.8	87.8	87.8	88.5	88.5
≥ 2500	80.6	83.6	84.7	86.1	87.7	88.2	88.9	89.1	89.4	89.7	89.7	89.8	89.8	89.8	90.5	90.5
≥ 2000	81.0	84.3	85.0	87.1	89.1	89.6	90.4	90.7	91.0	91.4	91.4	91.5	91.5	91.5	92.2	92.2
≥ 1800	81.1	84.4	85.1	87.2	89.2	89.7	90.5	90.8	91.1	91.5	91.5	91.6	91.6	91.6	92.3	92.3
≥ 1500	81.2	84.5	85.5	87.8	90.0	90.5	91.5	92.1	92.4	92.8	92.8	92.9	92.9	92.9	93.6	93.6
≥ 1200	81.4	84.8	85.7	88.1	90.3	91.0	92.1	92.7	93.0	93.4	93.4	93.5	93.5	93.5	94.2	94.2
≥ 1000	81.6	84.9	85.8	88.2	90.5	91.3	92.3	93.0	93.4	94.2	94.3	94.4	94.4	94.4	95.3	95.3
≥ 900	81.6	85.0	85.9	88.3	90.7	91.4	92.4	93.1	93.5	94.3	94.4	94.6	94.6	94.7	95.4	95.4
≥ 800	81.6	85.0	85.9	88.3	90.7	91.4	92.4	93.1	93.5	94.3	94.4	94.6	94.6	94.7	95.4	95.4
≥ 700	81.6	85.0	85.9	88.3	91.0	91.7	92.9	93.7	94.1	95.0	95.3	95.5	95.5	95.9	96.7	96.7
≥ 600	81.7	85.1	86.1	88.4	91.1	92.1	93.3	94.1	94.4	95.7	96.1	96.3	96.5	96.8	97.6	97.6
≥ 500	81.8	85.5	86.5	88.9	91.6	92.6	93.7	94.6	94.9	96.3	96.7	96.9	97.2	97.5	98.3	98.3
≥ 400	81.9	85.7	86.4	89.1	91.8	92.9	94.1	95.0	95.4	96.9	97.3	97.5	97.8	98.1	98.9	98.9
≥ 300	81.9	85.7	86.8	89.1	91.8	92.9	94.3	95.3	95.6	97.3	97.6	97.9	98.1	98.5	99.3	99.3
≥ 200	81.9	85.7	86.8	89.1	91.8	93.0	94.4	95.4	95.7	97.4	97.8	98.0	98.2	98.6	99.4	99.5
≥ 100	81.9	85.7	86.8	89.1	91.8	93.0	94.4	95.4	95.7	97.4	97.8	98.0	98.2	98.6	99.4	100.0
≥ 0	81.9	85.7	86.8	89.1	91.8	93.0	94.4	95.4	95.7	97.4	97.8	98.0	98.2	98.6	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 846

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ATP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEAR

FEB
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1220-1470
SOURCE

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING ≥ 20000	47.2	41.0	41.5	42.0	42.0	42.1	42.2	42.2	42.4	42.4	42.4	42.4	42.6	42.6	42.6	42.8
≥ 18000	47.9	48.9	49.5	50.1	50.1	50.2	50.4	50.4	50.6	50.7	50.7	50.7	50.8	50.8	50.8	51.1
≥ 16000	48.5	49.5	50.1	50.7	50.7	50.8	50.9	50.9	51.2	51.3	51.3	51.3	51.4	51.4	51.4	51.7
≥ 14000	48.6	49.6	50.2	50.8	50.8	50.9	51.1	51.1	51.3	51.4	51.4	51.4	51.5	51.5	51.5	51.8
≥ 12000	50.6	51.7	52.7	52.8	52.8	53.0	53.1	53.1	53.3	53.4	53.4	53.4	53.5	53.5	53.5	53.8
≥ 10000	59.6	59.9	60.6	61.2	61.2	61.3	61.5	61.5	61.7	61.8	61.8	61.8	61.9	61.9	61.9	62.2
≥ 8000	68.4	70.0	70.8	71.4	71.4	71.5	71.6	71.6	71.9	72.0	72.0	72.0	72.1	72.1	72.1	72.3
≥ 6000	70.0	71.5	72.3	72.9	73.0	73.2	73.3	73.3	73.5	73.6	73.6	73.6	73.8	73.8	73.8	74.0
≥ 4000	75.7	77.5	78.5	79.2	79.3	79.4	79.6	79.6	79.8	79.9	79.9	79.9	80.0	80.0	80.0	80.3
≥ 2000	76.9	78.8	79.9	80.7	80.9	81.1	81.2	81.2	81.4	81.6	81.6	81.6	81.7	81.7	81.7	81.9
≥ 1000	77.5	79.6	80.6	81.4	81.6	81.8	81.9	81.9	82.2	82.3	82.3	82.3	82.4	82.4	82.4	82.6
≥ 500	78.6	80.6	81.8	82.7	83.2	83.6	83.8	83.9	84.2	84.3	84.3	84.3	84.4	84.4	84.4	84.6
≥ 250	79.2	81.2	82.4	83.3	83.8	84.2	84.4	84.5	84.8	84.9	84.9	84.9	85.0	85.0	85.0	85.2
≥ 150	80.7	83.0	84.2	85.1	85.7	86.1	86.4	86.5	86.8	86.9	86.9	86.9	87.0	87.0	87.0	87.2
≥ 100	81.4	83.9	85.1	86.2	86.9	87.2	87.6	87.7	87.9	88.1	88.1	88.1	88.2	88.2	88.2	88.4
≥ 50	82.3	85.0	86.3	87.5	88.4	88.8	89.1	89.2	89.5	89.6	89.6	89.6	89.7	89.7	89.7	90.0
≥ 25	82.4	85.5	86.9	88.1	89.1	89.6	90.1	90.2	90.4	90.5	90.7	90.7	90.8	90.8	90.8	91.0
≥ 15	83.0	86.2	87.8	89.0	90.5	91.0	91.4	92.2	92.6	92.7	92.8	92.8	92.9	92.9	92.9	93.1
≥ 10	83.1	86.3	87.9	89.2	90.8	91.3	92.1	92.4	92.8	92.9	93.0	93.0	93.1	93.1	93.1	93.4
≥ 5	83.2	86.4	88.1	89.6	91.1	91.6	92.8	93.6	94.0	94.4	94.6	94.6	94.7	94.7	94.7	94.9
≥ 2	83.5	86.6	88.3	89.8	91.4	91.8	93.0	93.9	94.2	94.7	94.8	94.8	94.9	94.9	94.9	95.2
≥ 1	83.8	87.1	88.9	90.4	92.0	92.4	93.6	94.7	95.2	95.6	95.7	95.9	96.0	96.0	96.0	96.2
≥ 0.5	84.0	87.7	89.5	91.0	92.6	93.0	94.4	95.5	96.1	96.8	96.9	97.0	97.2	97.2	97.2	97.4
≥ 0.2	84.0	87.7	89.5	91.0	92.6	93.0	94.4	95.5	96.2	97.0	97.2	97.3	97.6	97.6	97.6	97.9
≥ 0.1	84.4	88.1	89.8	91.4	92.9	93.4	94.8	95.9	96.6	97.5	97.6	97.8	98.2	98.2	98.2	98.5
≥ 0.05	84.4	88.4	90.2	91.7	93.3	93.7	95.2	96.3	97.2	98.1	98.2	98.5	98.9	98.9	98.9	99.2
≥ 0.02	84.4	88.4	90.2	91.7	93.3	93.7	95.2	96.3	97.2	98.1	98.2	98.5	98.9	98.9	98.9	99.4
≥ 0.01	84.4	88.4	90.2	91.7	93.3	93.7	95.2	96.3	97.2	98.2	98.5	98.7	99.3	99.3	99.3	99.8
≥ 0.005	84.4	88.4	90.2	91.7	93.3	93.7	95.2	96.3	97.2	98.2	98.5	98.7	99.3	99.3	99.3	100.0
≥ 0.002	84.4	88.4	90.2	91.7	93.3	93.7	95.2	96.3	97.2	98.2	98.5	98.7	99.3	99.3	99.3	100.0
≥ 0.001	84.4	88.4	90.2	91.7	93.3	93.7	95.2	96.3	97.2	98.2	98.5	98.7	99.3	99.3	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 896

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

FEB
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700
HOURS

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	≥9	≥8	≥7	≥6	≥5	≥4	≥3	≥2	≥1	≥1/2	≥1/4	≥1/8	≥1/16	≥1/32	≥0
NO CEILING	43.3	44.3	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
≥ 20000	51.4	52.5	52.7	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
≥ 18000	52.1	53.2	53.4	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
≥ 16000	52.5	53.5	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥ 14000	55.1	56.1	56.4	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
≥ 12000	67.5	61.9	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 10000	68.3	70.4	70.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥ 9000	69.7	71.9	72.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 8000	74.7	77.3	77.5	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 7000	76.1	78.7	79.0	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 6000	77.7	80.3	80.5	80.7	80.9	80.9	80.9	80.9	80.9	80.9	81.0	81.0	81.0	81.0	81.0	81.0
≥ 5000	87.0	82.6	82.9	83.1	83.5	83.5	83.6	83.7	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8
≥ 4500	80.5	83.7	83.9	84.2	84.5	84.5	84.6	84.8	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 4000	82.0	85.3	85.8	86.4	86.8	86.8	86.9	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 3500	83.2	86.6	87.2	87.8	88.2	88.2	88.4	88.5	88.5	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 3000	84.3	87.7	88.3	88.9	89.4	89.5	89.9	90.2	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 2500	85.2	89.1	90.0	90.7	91.3	91.5	91.8	92.3	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 2000	85.7	89.8	90.9	91.8	92.6	92.8	93.1	93.7	93.9	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 1800	85.8	90.0	90.9	92.0	92.8	93.0	93.4	94.0	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 1500	85.9	90.3	91.3	92.4	93.4	93.7	94.6	95.3	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 1200	86.3	90.7	91.7	92.9	93.9	94.2	95.0	95.7	95.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1000	86.5	90.9	92.1	93.3	94.3	94.8	95.6	96.3	96.6	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 900	86.6	91.3	92.4	93.6	94.7	95.2	96.0	96.7	96.9	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 800	86.6	91.4	92.6	93.7	94.8	95.3	96.2	96.9	97.2	97.6	97.6	97.9	97.9	97.9	97.9	97.9
≥ 700	86.8	91.5	92.8	94.0	95.0	95.5	96.5	97.2	97.4	97.9	97.9	98.1	98.1	98.1	98.1	98.1
≥ 600	86.8	91.5	92.9	94.1	95.2	95.6	96.6	97.4	97.6	98.2	98.2	98.5	98.5	98.5	98.5	98.5
≥ 500	86.8	91.5	93.1	94.3	95.4	95.9	96.8	97.6	97.9	98.5	98.5	98.7	98.8	98.8	98.8	98.8
≥ 400	86.9	91.6	93.3	94.4	95.5	96.0	96.9	97.8	98.0	98.6	98.6	98.9	99.1	99.1	99.1	99.1
≥ 300	86.9	91.6	93.3	94.4	95.6	96.1	97.0	97.9	98.1	98.8	98.8	99.2	99.3	99.3	99.3	99.3
≥ 200	86.9	91.6	93.3	94.4	95.6	96.1	97.0	97.9	98.1	98.8	98.9	99.3	99.4	99.4	99.4	99.4
≥ 100	86.9	91.6	93.3	94.4	95.6	96.1	97.0	97.9	98.1	98.8	98.9	99.3	99.4	99.4	99.4	99.4
≥ 0	86.9	91.6	93.3	94.4	95.6	96.1	97.0	97.9	98.1	98.8	98.9	99.3	99.4	99.4	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 896

USAF ETAC FORM 7-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ATP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEARS

FEB
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1900-2000
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	49.2	50.4	50.5	50.6	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
≥20000	53.5	54.7	55.7	55.1	55.2	55.2	55.2	55.2	55.2	55.2	55.3	55.3	55.3	55.3	55.3	55.3
≥18000	54.4	55.6	55.8	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.1	56.1	56.1	56.1	56.1	56.1
≥16000	54.4	55.6	55.8	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.1	56.1	56.1	56.1	56.1	56.1
≥14000	55.7	56.9	57.1	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.4	57.4	57.4	57.4	57.4	57.4
≥12000	61.8	61.9	62.3	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.6	62.6	62.6	62.6	62.6	62.6
≥10000	69.4	71.9	71.6	72.0	72.1	72.1	72.1	72.1	72.1	72.1	72.2	72.2	72.2	72.2	72.2	72.2
≥9000	71.0	72.8	73.6	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.2	74.2	74.2	74.2	74.2	74.2
≥8000	74.9	76.7	77.5	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1
≥7000	75.9	77.7	78.5	78.8	79.0	79.0	79.0	79.0	79.0	79.0	79.1	79.1	79.1	79.1	79.1	79.1
≥6000	77.1	78.8	79.7	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.3	80.3	80.3	80.3	80.3	80.3
≥5000	78.4	80.4	81.2	81.6	81.9	81.9	81.9	81.9	81.9	81.9	82.0	82.0	82.0	82.0	82.0	82.0
≥4500	79.6	81.7	82.5	82.9	83.2	83.2	83.2	83.2	83.2	83.2	83.3	83.3	83.3	83.3	83.3	83.3
≥4000	80.9	83.2	84.0	84.4	84.9	84.9	84.9	85.0	85.0	85.0	85.1	85.1	85.1	85.1	85.1	85.1
≥3500	82.2	85.1	86.3	86.8	87.2	87.2	87.2	87.4	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥3000	83.3	86.5	87.8	88.3	88.8	88.8	88.8	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥2500	84.3	88.3	89.6	90.1	91.0	91.0	91.1	91.3	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥2000	84.5	88.7	90.0	90.5	92.1	92.1	92.3	92.4	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥1800	84.5	88.7	90.0	90.5	92.1	92.1	92.3	92.4	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥1500	84.5	88.8	90.2	90.9	92.4	92.4	92.9	93.4	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥1200	84.5	88.8	90.3	91.1	92.7	92.7	93.5	94.0	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥1000	84.6	88.9	90.7	91.5	93.0	93.0	94.2	94.8	95.3	95.5	95.5	95.5	95.5	95.5	95.6	95.6
≥900	84.9	89.1	90.9	91.7	93.3	93.3	94.4	95.0	95.5	95.7	95.7	95.7	95.7	95.7	95.9	95.9
≥800	85.0	89.2	91.0	91.8	93.4	93.4	94.6	95.3	95.7	96.2	96.2	96.3	96.3	96.3	96.5	96.5
≥700	85.2	89.5	91.3	92.1	93.6	93.6	94.8	95.6	96.1	96.6	96.6	96.7	96.7	96.7	96.8	96.8
≥600	85.2	89.7	91.5	92.3	93.9	94.0	95.2	96.0	96.5	96.9	96.9	97.0	97.0	97.0	97.2	97.2
≥500	85.2	89.7	91.5	92.3	94.1	94.2	95.4	96.2	96.7	97.2	97.3	97.4	97.4	97.4	97.5	97.5
≥400	85.5	90.0	91.7	92.6	94.7	94.8	96.1	96.9	97.4	98.1	98.2	98.3	98.3	98.3	98.5	98.8
≥300	85.5	90.0	91.7	92.6	94.7	94.8	96.1	96.9	97.4	98.1	98.2	98.3	98.3	98.3	98.5	98.8
≥200	85.5	90.0	91.7	92.6	94.7	94.8	96.1	96.9	97.4	98.1	98.2	98.3	98.3	98.3	98.5	98.8
≥100	85.5	90.0	91.7	92.6	94.7	94.8	96.1	96.9	97.4	98.1	98.2	98.3	98.3	98.3	98.5	98.8
≥0	85.5	90.0	91.7	92.6	94.7	94.8	96.1	96.9	97.4	98.1	98.2	98.3	98.3	98.3	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS 846

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

77755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

FEB
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2120-2320
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥8	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	48.2	48.8	49.3	49.4	49.4	49.4	49.4	49.4	49.5	49.5	49.5	49.5	49.5	49.6	49.6	49.8
≥ 20000	55.1	56.3	56.7	56.9	56.9	56.9	56.9	56.9	57.0	57.0	57.0	57.0	57.0	57.1	57.1	57.2
≥ 18000	55.2	56.4	56.9	57.0	57.0	57.0	57.0	57.0	57.1	57.1	57.1	57.1	57.1	57.2	57.2	57.3
≥ 16000	55.4	56.6	57.1	57.2	57.2	57.2	57.2	57.2	57.3	57.3	57.3	57.3	57.3	57.4	57.4	57.6
≥ 14000	56.4	57.6	58.0	58.2	58.2	58.2	58.2	58.2	58.3	58.3	58.3	58.3	58.3	58.4	58.4	58.5
≥ 12000	61.2	62.4	62.9	63.0	63.0	63.0	63.0	63.0	63.1	63.1	63.1	63.1	63.1	63.2	63.2	63.4
≥ 10000	69.6	70.8	71.3	71.4	71.4	71.4	71.4	71.4	71.5	71.5	71.5	71.5	71.5	71.6	71.6	71.7
≥ 9500	71.0	72.2	72.7	72.8	72.8	72.8	72.8	72.8	72.9	72.9	72.9	72.9	72.9	73.0	73.0	73.2
≥ 9000	72.2	73.5	74.0	74.1	74.1	74.1	74.1	74.1	74.2	74.2	74.2	74.2	74.2	74.3	74.3	74.5
≥ 8500	73.4	74.7	75.2	75.3	75.3	75.3	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.5	75.5	75.7
≥ 8000	74.9	76.2	76.7	76.8	76.8	76.8	76.8	76.8	77.0	77.0	77.0	77.0	77.0	77.1	77.1	77.2
≥ 7500	76.1	77.9	78.5	78.6	78.6	78.6	78.6	78.6	78.7	78.7	78.7	78.7	78.7	78.8	78.8	79.0
≥ 7000	77.7	79.6	80.1	80.6	80.6	80.6	80.6	80.6	80.7	80.7	80.7	80.7	80.7	80.9	80.9	81.0
≥ 6500	79.3	81.3	82.2	82.6	82.6	82.6	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.9	82.9	83.0
≥ 6000	79.9	82.9	83.8	84.3	84.3	84.3	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.6	84.6	84.9
≥ 5500	81.6	84.2	85.1	85.8	86.1	86.2	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.5	86.5	86.8
≥ 5000	81.3	84.9	86.1	86.8	87.0	87.2	87.2	87.2	87.4	87.4	87.4	87.4	87.4	87.6	87.6	87.8
≥ 4500	81.6	85.2	86.5	87.2	87.6	88.1	88.3	88.5	88.7	88.7	88.7	88.7	88.7	89.0	89.1	89.2
≥ 4000	81.7	85.3	86.6	87.4	87.7	88.2	88.4	88.7	88.8	89.1	89.1	89.1	89.1	89.2	89.2	89.4
≥ 3500	82.1	85.9	87.2	88.1	88.5	89.0	89.2	89.7	89.8	90.9	90.9	90.9	90.9	91.0	91.0	91.1
≥ 3000	82.0	86.1	87.4	88.2	88.7	89.1	89.6	90.4	90.5	91.6	91.6	91.6	91.6	91.7	91.7	91.8
≥ 2500	82.2	86.4	87.7	88.7	89.1	89.7	91.8	91.7	91.8	92.9	93.7	93.0	93.1	93.1	93.3	93.3
≥ 2000	82.3	86.8	88.3	89.2	89.7	91.3	91.4	92.3	92.4	93.6	93.9	93.9	94.1	94.1	94.2	94.2
≥ 1800	82.5	87.1	88.7	89.7	90.5	91.1	92.6	93.5	93.6	94.9	95.2	95.2	95.4	95.4	95.5	95.5
≥ 1600	82.6	87.4	88.9	90.0	90.8	91.6	93.0	94.0	94.1	95.4	95.6	95.6	96.0	96.0	96.1	96.1
≥ 1400	82.6	87.4	89.7	90.1	91.1	92.7	93.5	94.7	94.8	96.3	96.6	96.6	96.9	96.9	97.0	97.0
≥ 1200	82.6	87.5	89.1	91.2	91.3	92.1	93.6	94.9	95.2	96.7	96.9	96.9	97.3	97.3	97.4	97.4
≥ 1000	82.6	87.6	89.2	90.3	91.6	92.4	94.0	95.3	95.5	97.0	97.3	97.3	97.6	97.6	97.8	98.0
≥ 900	82.6	87.6	89.2	90.3	91.7	92.6	94.2	95.5	95.7	97.3	97.5	97.5	97.9	97.9	98.0	98.2
≥ 800	82.6	87.6	89.2	90.3	91.7	92.6	94.3	95.6	96.1	97.8	98.0	98.0	98.7	98.7	98.8	99.1
≥ 700	82.6	87.6	89.2	90.3	91.7	92.6	94.3	95.6	96.1	97.8	98.0	98.0	98.7	98.7	98.8	99.3
≥ 600	82.6	87.6	89.2	90.3	91.7	92.6	94.3	95.6	96.1	97.8	98.0	98.0	98.7	98.7	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 846

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MAHMSTROM AFB MT

74-87

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	44.6	45.6	45.8	46.0	46.0	46.1	46.1	46.1	46.2	46.2	46.2	46.2	46.2	46.2	46.3	46.4
≥ 2000	51.6	52.7	53.7	53.2	53.2	53.3	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.5	53.5	53.6
≥ 1800	52.0	53.0	53.3	53.5	53.6	53.6	53.6	53.7	53.7	53.8	53.8	53.8	53.8	53.9	54.0	54.1
≥ 1600	52.1	53.2	53.5	53.7	53.8	53.8	53.8	53.9	53.9	54.0	54.0	54.0	54.0	54.1	54.2	54.2
≥ 1400	53.6	54.7	55.0	55.2	55.3	55.3	55.3	55.4	55.4	55.5	55.5	55.5	55.5	55.6	55.7	55.7
≥ 1200	59.5	60.7	61.7	61.2	61.3	61.3	61.3	61.3	61.4	61.5	61.5	61.5	61.5	61.6	61.7	61.7
≥ 1000	68.1	69.5	69.9	70.1	70.2	70.3	70.3	70.3	70.4	70.4	70.4	70.4	70.5	70.6	70.7	70.7
≥ 900	69.7	71.1	71.5	71.7	71.9	71.9	71.9	71.9	72.0	72.1	72.1	72.1	72.1	72.2	72.3	72.4
≥ 800	73.5	75.2	75.6	75.9	76.0	76.1	76.1	76.2	76.2	76.3	76.3	76.3	76.3	76.4	76.5	76.6
≥ 700	74.6	76.4	76.9	77.2	77.3	77.4	77.4	77.5	77.5	77.6	77.6	77.6	77.7	77.7	77.9	77.9
≥ 600	75.8	77.6	78.0	78.4	78.5	78.5	78.6	78.6	78.7	78.8	78.8	78.8	78.8	78.9	79.0	79.0
≥ 500	77.1	79.2	79.7	80.1	80.3	80.4	80.5	80.5	80.6	80.7	80.7	80.7	80.7	80.8	80.9	81.0
≥ 450	77.9	80.1	80.6	81.1	81.3	81.4	81.5	81.5	81.6	81.7	81.7	81.7	81.8	81.8	81.9	82.0
≥ 400	79.6	82.0	82.6	83.2	83.6	83.6	83.7	83.8	83.9	84.0	84.0	84.0	84.0	84.1	84.2	84.3
≥ 350	80.4	83.2	84.1	84.7	85.1	85.2	85.3	85.4	85.5	85.6	85.6	85.6	85.7	85.7	85.9	85.9
≥ 300	81.3	84.4	85.4	86.2	86.7	86.9	87.1	87.2	87.3	87.4	87.4	87.4	87.5	87.5	87.7	87.7
≥ 250	82.1	85.5	86.4	87.6	88.3	88.6	88.9	89.0	89.1	89.3	89.3	89.3	89.4	89.4	89.6	89.6
≥ 200	82.6	86.2	87.5	88.4	89.4	89.8	90.2	90.5	90.7	90.9	90.9	90.9	91.0	91.0	91.2	91.2
≥ 1800	82.7	86.3	87.6	88.6	89.6	89.9	90.4	90.7	90.9	91.1	91.1	91.1	91.2	91.2	91.4	91.4
≥ 1600	82.8	86.6	88.1	89.2	90.3	90.7	91.4	92.0	92.2	92.5	92.6	92.6	92.7	92.7	92.9	92.9
≥ 1400	83.0	86.8	88.4	89.6	90.7	91.2	92.0	92.7	93.0	93.4	93.4	93.4	93.5	93.6	93.7	93.8
≥ 1200	83.3	87.1	88.8	90.0	91.3	91.8	92.9	93.7	94.0	94.6	94.7	94.7	94.8	94.9	95.1	95.1
≥ 1000	83.4	87.4	89.1	90.4	91.7	92.2	93.3	94.1	94.4	95.1	95.1	95.2	95.3	95.3	95.5	95.6
≥ 900	83.5	87.5	89.2	90.5	91.9	92.4	93.5	94.4	94.7	95.4	95.6	95.7	95.8	95.8	96.0	96.1
≥ 800	83.6	87.8	89.5	90.7	92.2	92.7	93.9	94.8	95.2	96.0	96.1	96.2	96.4	96.5	96.7	96.7
≥ 700	83.6	87.8	89.6	90.9	92.3	93.0	94.2	95.2	95.7	96.6	96.7	96.8	97.0	97.1	97.3	97.3
≥ 600	83.7	88.0	89.8	91.1	92.6	93.2	94.4	95.5	96.0	97.0	97.2	97.3	97.5	97.6	97.8	97.9
≥ 500	83.8	88.2	90.0	91.3	92.9	93.5	94.8	95.9	96.4	97.4	97.6	97.8	98.0	98.1	98.3	98.4
≥ 400	83.8	88.2	90.0	91.4	93.0	93.6	95.1	96.2	96.7	97.7	98.0	98.1	98.4	98.5	98.7	98.8
≥ 300	83.8	88.2	90.0	91.4	93.0	93.7	95.1	96.3	96.8	97.9	98.1	98.3	98.7	98.8	99.1	99.3
≥ 200	83.8	88.2	90.0	91.4	93.0	93.7	95.1	96.3	96.8	97.9	98.2	98.3	98.8	98.8	99.2	99.8
≥ 100	83.8	88.2	90.0	91.4	93.0	93.7	95.1	96.3	96.8	97.9	98.2	98.3	98.8	98.8	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 6768

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-87

MAP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
20000	48.1	48.8	48.9	49.1	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
18000	53.2	54.1	54.2	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
16000	53.2	54.1	54.2	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
14000	53.4	54.3	54.4	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
12000	54.2	55.1	55.2	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
10000	57.8	58.8	59.7	59.2	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
9000	65.7	66.7	66.9	67.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
8000	66.6	67.5	67.7	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
7000	70.2	71.5	71.7	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
6000	71.4	72.7	72.9	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
5000	71.8	73.1	73.3	73.5	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
4500	73.3	74.9	75.3	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
4000	74.7	76.5	76.8	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
3500	78.4	80.2	80.6	81.0	81.1	81.1	81.1	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
3000	79.4	81.9	82.5	82.8	83.0	83.0	83.0	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
2500	81.3	83.0	83.9	84.2	84.6	84.6	84.6	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
2000	81.2	84.7	85.1	85.5	86.1	86.1	86.1	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
1800	81.8	84.7	86.7	86.6	87.3	87.5	87.7	88.1	88.2	88.4	88.5	88.5	88.5	88.5	88.5	88.5
1600	82.7	84.9	86.7	86.8	87.6	87.8	88.1	88.4	88.5	88.7	88.8	88.8	88.8	88.8	88.8	88.8
1400	82.8	85.8	87.4	88.0	88.9	89.2	89.7	90.0	90.2	90.4	90.6	90.6	90.6	90.6	90.6	90.6
1200	82.9	85.9	87.7	88.5	89.9	90.2	91.7	91.5	91.7	92.0	92.3	92.3	92.3	92.3	92.3	92.3
1000	83.0	86.5	88.4	89.4	91.1	91.6	92.9	93.9	94.1	94.5	94.7	94.7	94.7	94.7	94.7	94.7
900	83.7	86.6	88.5	89.5	91.3	91.8	93.1	94.5	94.7	95.3	95.5	95.5	95.5	95.5	95.5	95.5
800	83.7	86.8	88.7	89.8	91.7	92.3	93.5	95.1	95.3	95.8	96.2	96.2	96.2	96.5	96.5	96.5
700	83.7	87.1	89.7	90.1	92.2	92.7	94.7	95.6	95.8	96.6	97.1	97.1	97.1	97.3	97.3	97.3
600	83.1	87.4	89.4	90.4	92.6	93.1	94.5	96.3	96.6	97.4	98.0	98.0	98.0	98.2	98.3	98.3
500	83.3	87.7	89.7	90.8	92.9	93.4	94.8	96.7	96.9	97.7	98.3	98.3	98.3	98.5	98.6	98.6
400	83.4	88.0	89.9	91.0	93.1	93.7	95.2	97.0	97.2	98.1	98.6	98.6	98.6	98.8	98.9	98.9
300	83.5	88.1	90.0	91.2	93.3	93.9	95.4	97.2	97.4	98.3	98.8	98.8	98.8	99.0	99.1	99.2
200	83.5	88.1	91.0	91.2	93.4	94.0	95.6	97.5	97.7	98.6	99.1	99.1	99.1	99.4	99.5	99.9
100	83.5	88.1	91.7	91.2	93.4	94.0	95.6	97.5	97.7	98.6	99.1	99.1	99.2	99.5	99.6	100.0
0	83.5	88.1	90.0	91.2	93.4	94.7	95.6	97.5	97.7	98.6	99.1	99.1	99.2	99.5	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS

432

USAF ETAC FORM 64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEAR

MAC
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

7300-7507
USAF

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	2.0	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2
NO CEILING	46.6	47.7	47.8	47.8	48.1	48.1	48.2	48.2	48.2	48.4	48.4	48.4	48.5	48.5	48.5	48.5
1-20000	51.0	53.2	53.3	53.3	53.5	53.5	53.7	53.7	53.7	53.9	53.9	53.9	54.0	54.0	54.0	54.1
2-8000	51.9	53.2	53.3	53.3	53.5	53.5	53.7	53.7	53.7	53.9	53.9	53.9	54.0	54.0	54.0	54.1
2-5000	52.3	53.5	53.7	53.7	53.9	53.9	54.0	54.0	54.0	54.2	54.2	54.2	54.3	54.3	54.3	54.4
2-14000	53.0	54.3	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.9	54.9	54.9	55.1	55.1	55.1	55.2
2-12000	57.3	58.7	58.8	58.8	59.0	59.0	59.1	59.1	59.1	59.4	59.4	59.4	59.5	59.5	59.5	59.6
2-10000	64.3	65.7	65.8	66.0	66.2	66.2	66.3	66.3	66.3	66.6	66.6	66.6	66.7	66.7	66.7	66.8
2-9000	65.4	66.8	66.9	67.1	67.3	67.3	67.4	67.4	67.4	67.6	67.6	67.6	67.7	67.7	67.7	67.8
2-8000	67.3	69.1	69.2	69.6	69.8	69.8	69.9	69.9	69.9	70.1	70.1	70.1	70.2	70.2	70.2	70.3
2-7000	68.0	69.8	69.9	70.2	70.4	70.4	70.5	70.5	70.5	70.8	70.8	70.8	70.9	70.9	70.9	71.0
2-6000	69.0	70.9	71.0	71.3	71.5	71.5	71.6	71.6	71.6	71.8	71.8	71.8	71.9	71.9	71.9	72.0
2-5000	71.0	72.8	73.0	73.3	73.5	73.5	73.7	73.7	73.7	73.9	73.9	73.9	74.0	74.0	74.0	74.1
2-4500	72.0	74.0	74.3	74.6	74.8	74.8	74.9	74.9	74.9	75.2	75.2	75.2	75.3	75.3	75.3	75.4
2-4000	74.9	77.2	77.8	78.2	78.5	78.5	78.6	78.6	78.6	78.8	78.8	78.8	78.9	78.9	78.9	79.0
2-3500	75.7	78.7	79.4	79.8	80.4	80.4	80.5	80.5	80.5	80.8	80.8	80.8	80.9	80.9	80.9	81.0
2-3000	76.5	79.7	80.9	81.5	82.5	82.5	82.6	82.6	82.6	82.8	82.8	82.8	83.0	83.0	83.0	83.1
2-2500	77.2	80.8	81.9	82.7	83.7	83.7	83.8	83.9	83.9	84.1	84.1	84.1	84.3	84.3	84.3	84.4
2-2000	77.7	81.5	82.9	83.7	84.6	84.6	84.7	84.9	84.9	85.2	85.2	85.2	85.4	85.4	85.4	85.5
2-1800	78.0	81.7	83.2	84.0	85.1	85.1	85.2	85.4	85.4	85.6	85.6	85.6	85.8	85.8	85.8	85.9
2-1500	79.0	82.9	84.4	85.3	86.6	86.6	86.9	87.1	87.3	87.5	87.5	87.5	87.7	87.7	87.7	87.8
2-1200	79.2	83.1	84.7	86.0	87.8	87.8	88.3	88.8	89.0	89.2	89.2	89.2	89.5	89.5	89.5	89.6
2-1000	79.6	83.7	85.4	86.7	89.0	89.0	89.5	90.1	90.3	90.6	90.6	90.8	91.0	91.0	91.0	91.1
2-900	79.6	83.8	85.5	86.8	89.1	89.1	89.6	90.4	90.8	91.1	91.4	91.5	91.7	91.7	91.7	91.8
2-800	79.6	83.9	85.6	87.0	89.5	89.5	89.9	91.0	91.3	91.8	92.5	92.6	92.8	92.8	92.8	92.9
2-700	79.6	84.4	86.1	87.6	90.1	90.1	90.5	91.6	91.9	92.5	93.1	93.2	93.4	93.4	93.4	93.5
2-600	79.6	85.3	87.1	88.8	91.3	91.3	91.7	92.9	93.2	94.4	95.3	95.4	95.7	95.7	95.7	95.8
2-500	79.9	85.8	87.6	89.4	92.4	92.5	93.0	94.2	94.5	95.8	96.7	96.8	97.1	97.1	97.1	97.2
2-400	80.1	86.5	88.4	90.3	93.4	93.5	94.1	95.3	95.6	96.9	97.7	97.8	98.2	98.2	98.4	98.7
2-300	80.2	86.9	88.8	90.8	93.9	94.0	94.5	95.7	96.1	97.4	98.3	98.4	98.7	98.7	98.9	99.2
2-200	80.2	86.9	88.8	90.8	93.9	94.0	94.5	95.7	96.1	97.4	98.3	98.4	98.7	98.7	98.9	99.2
2-100	80.2	86.9	88.8	90.8	93.9	94.0	94.5	95.7	96.1	97.4	98.4	98.5	99.2	99.2	99.6	100.0
2	80.2	86.9	88.8	90.8	93.9	94.0	94.5	95.7	96.1	97.4	98.4	98.5	99.2	99.2	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOPAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

77755

MALMSTROM AFB MT

74-87

MAP

STATION

STATION NAME

YEAR

MO. YR.

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

5520-0870
NO. OF ST.

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO. CEILING	41.4	41.6	41.7	41.8	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.4	42.4	42.4
≥ 20000	48.2	48.5	49.7	48.8	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.4	49.4	49.5
≥ 18000	48.7	49.0	49.2	49.4	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.9	49.9	50.0
≥ 16000	49.2	49.6	49.8	49.9	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.4	50.4	50.5
≥ 14000	51.8	51.1	51.3	51.4	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.9	51.9	52.0
≥ 12000	55.7	56.0	56.2	56.3	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.9	56.9	57.0
≥ 10000	63.2	63.8	64.1	64.2	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.7	64.7	64.9
≥ 9000	64.8	65.4	65.7	65.8	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.3	66.3	66.6
≥ 8000	68.9	69.5	69.8	69.9	70.3	70.3	70.3	70.3	70.3	70.4	70.4	70.4	70.4	70.5	70.5	70.8
≥ 7000	69.8	70.4	70.9	71.0	71.4	71.4	71.4	71.4	71.4	71.5	71.5	71.5	71.5	71.6	71.6	71.8
≥ 6000	70.1	70.9	71.3	71.4	71.8	71.8	71.8	71.8	71.8	71.9	71.9	71.9	71.9	72.0	72.0	72.3
≥ 5000	71.8	72.6	73.1	73.3	73.8	73.8	73.8	73.8	73.8	74.0	74.0	74.0	74.0	74.1	74.1	74.3
≥ 4500	72.9	73.7	74.3	74.6	75.2	75.2	75.2	75.2	75.2	75.4	75.4	75.4	75.4	75.5	75.5	75.7
≥ 4000	75.3	76.1	76.9	77.2	77.8	77.8	77.8	77.8	77.8	78.2	78.2	78.4	78.4	78.5	78.5	78.7
≥ 3500	76.3	77.3	78.4	78.9	79.8	79.8	80.1	80.1	80.1	80.3	80.3	80.3	80.3	80.4	80.4	80.6
≥ 3000	76.8	77.8	78.9	79.7	80.6	80.6	81.0	81.1	81.1	81.3	81.3	81.3	81.3	81.4	81.4	81.7
≥ 2500	77.3	78.7	79.8	80.5	81.5	81.5	81.8	81.9	81.9	82.2	82.2	82.2	82.2	82.3	82.3	82.6
≥ 2000	77.6	79.1	80.3	81.2	82.4	82.5	82.8	83.0	83.0	83.2	83.2	83.2	83.2	83.3	83.3	83.7
≥ 1800	77.8	79.4	80.5	81.4	82.6	82.7	83.0	83.2	83.2	83.4	83.4	83.4	83.4	83.5	83.5	83.9
≥ 1500	78.7	80.2	81.4	82.4	83.8	83.9	84.4	84.6	84.6	85.2	85.3	85.3	85.3	85.4	85.4	85.7
≥ 1200	79.1	81.1	82.4	83.3	84.7	84.8	85.6	85.9	86.1	86.8	86.9	86.9	86.9	87.1	87.1	87.4
≥ 1000	79.4	81.7	83.1	84.3	86.0	86.1	87.1	87.5	87.7	88.6	88.7	88.7	88.7	89.1	89.1	89.5
≥ 900	79.5	81.8	83.2	84.5	86.2	86.5	87.4	87.8	88.3	89.1	89.4	89.4	89.4	89.9	89.9	90.3
≥ 800	79.5	81.9	83.3	84.6	86.6	86.8	88.0	88.5	89.0	90.1	90.3	90.3	90.3	91.0	91.0	91.5
≥ 700	79.7	82.5	83.9	85.5	88.0	88.2	89.5	90.0	90.5	91.6	91.9	91.9	91.9	92.6	92.6	93.1
≥ 600	79.7	82.5	83.9	85.6	88.1	88.4	89.7	90.4	91.0	92.4	92.9	92.9	92.9	93.5	93.5	94.3
≥ 500	79.7	83.2	84.7	86.6	89.1	89.6	90.9	91.9	92.5	94.2	94.8	94.8	94.8	95.6	95.6	96.5
≥ 400	80.0	83.8	85.4	87.3	90.0	90.5	92.0	93.2	93.8	95.7	96.3	96.3	96.3	97.4	97.4	98.4
≥ 300	80.0	83.9	85.5	87.5	90.2	90.8	92.3	93.4	94.0	96.0	96.9	96.9	96.9	98.0	98.0	99.1
≥ 200	80.0	83.9	85.5	87.5	90.2	90.8	92.3	93.5	94.2	96.3	97.2	97.2	97.2	98.3	98.3	99.6
≥ 100	80.0	83.9	85.5	87.5	90.2	90.8	92.3	93.7	94.3	96.5	97.3	97.3	97.3	98.5	98.5	100.0
≥ 0	80.0	83.9	85.5	87.5	90.2	90.8	92.3	93.7	94.3	96.5	97.3	97.3	97.3	98.5	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-83

MAP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1950-1959
40,000-100,000

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	≥ .05	≥ .025	≥ .01	≥ 0
NO FILING	44.2	44.6	44.6	44.8	44.9	44.9	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
≥ 2000	52.6	53.1	53.1	53.3	53.4	53.4	53.7	53.7	53.7	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 1800	53.8	54.3	54.3	54.5	54.6	54.6	54.8	54.8	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9
≥ 1600	53.9	54.4	54.4	54.6	54.7	54.7	54.9	54.9	54.9	55.1	55.1	55.1	55.1	55.1	55.1	55.1
≥ 1400	56.6	57.1	57.1	57.3	57.4	57.4	57.6	57.6	57.6	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 1200	67.5	61.1	61.1	61.3	61.4	61.4	61.6	61.6	61.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 1000	67.7	67.6	67.6	68.3	68.4	68.4	68.6	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 900	68.1	68.8	68.8	69.5	69.6	69.6	69.8	69.8	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 800	71.3	72.0	72.0	72.8	72.9	73.0	73.2	73.2	73.2	73.3	73.4	73.4	73.4	73.4	73.4	73.4
≥ 700	71.8	72.7	72.7	73.4	73.5	73.7	73.9	74.0	74.0	74.1	74.2	74.2	74.2	74.2	74.2	74.2
≥ 600	72.8	73.7	73.7	74.4	74.6	74.7	74.9	75.1	75.1	75.2	75.3	75.3	75.3	75.3	75.3	75.3
≥ 500	74.1	74.9	75.1	75.8	76.0	76.1	76.3	76.5	76.5	76.6	76.7	76.7	76.7	76.7	76.7	76.7
≥ 4500	74.7	75.7	75.8	76.6	76.9	77.1	77.3	77.4	77.4	77.5	77.6	77.6	77.6	77.6	77.6	77.6
≥ 4000	76.9	78.2	78.5	79.5	80.1	80.4	80.6	80.9	80.9	81.0	81.1	81.1	81.1	81.1	81.1	81.1
≥ 3500	78.1	79.6	79.9	81.1	81.8	82.2	82.4	82.7	82.7	82.8	82.9	82.9	83.0	83.0	83.0	83.0
≥ 3000	78.9	80.9	81.5	82.7	83.7	84.1	84.3	85.1	85.1	85.2	85.5	85.6	85.8	85.8	85.8	85.8
≥ 2500	79.2	81.2	81.8	83.2	84.2	84.6	84.8	85.6	85.7	85.8	86.1	86.2	86.5	86.5	86.5	86.5
≥ 2000	79.4	81.8	82.5	84.1	85.1	85.7	85.9	86.7	86.8	87.0	87.3	87.4	87.6	87.6	87.6	87.6
≥ 1800	79.5	82.0	82.7	84.3	85.3	85.9	86.1	86.9	87.0	87.3	87.6	87.7	88.1	88.1	88.1	88.1
≥ 1500	81.2	82.9	83.7	85.4	86.5	87.1	87.3	88.2	88.4	88.7	89.1	89.2	89.7	89.7	89.7	89.7
≥ 1200	81.2	84.2	85.1	86.8	88.1	88.8	89.5	90.8	91.4	91.9	92.4	92.5	92.9	93.0	93.0	93.0
≥ 1000	81.2	84.3	85.2	87.1	88.7	89.6	90.3	92.0	92.8	93.3	93.8	93.9	94.4	94.5	94.5	94.5
≥ 900	81.2	84.3	85.3	87.2	88.9	89.8	90.5	92.3	93.0	93.7	94.3	94.4	94.9	95.1	95.1	95.1
≥ 800	81.3	84.4	85.4	87.3	89.1	90.1	90.9	92.8	93.5	94.2	94.8	94.9	95.5	95.6	95.6	95.6
≥ 700	81.4	84.5	85.7	87.7	89.6	90.5	91.5	93.5	94.3	95.4	96.0	96.1	96.7	96.8	96.8	96.8
≥ 600	81.4	84.5	85.8	87.8	89.7	90.8	91.8	93.9	94.6	95.7	96.3	96.5	97.0	97.1	97.2	97.4
≥ 500	81.4	84.6	86.0	88.3	90.1	91.2	92.4	94.9	95.8	97.1	97.8	98.0	98.5	98.6	98.7	98.9
≥ 400	81.4	84.6	86.0	88.3	90.1	91.2	92.5	95.3	96.2	97.5	98.3	98.4	98.9	99.0	99.1	99.4
≥ 300	81.4	84.6	86.0	88.3	90.2	91.3	92.6	95.4	96.3	97.6	98.4	98.5	99.1	99.2	99.4	99.6
≥ 200	81.4	84.6	86.0	88.3	90.2	91.3	92.7	95.5	96.5	97.7	98.5	98.6	99.2	99.4	99.7	99.9
≥ 100	81.4	84.6	86.0	88.3	90.2	91.3	92.7	95.5	96.5	97.8	98.6	98.7	99.4	99.5	99.8	100.0
≥ 0	81.4	84.6	86.0	88.3	90.2	91.3	92.7	95.5	96.5	97.8	98.6	98.7	99.4	99.5	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 10-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-83

MAC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
≥20000	47.3	41.7	41.7	41.5	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
≥18000	48.8	49.7	49.7	50.2	52.3	50.3	52.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥16000	50.0	50.9	50.9	51.4	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
≥14000	51.6	51.5	51.5	52.0	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
≥12000	52.6	53.4	53.4	54.0	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
≥10000	57.4	58.3	58.3	58.8	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
≥8000	64.8	65.7	65.7	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥6000	66.2	67.1	67.1	67.6	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥4500	69.5	70.4	70.4	71.0	71.1	71.1	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥3000	70.1	71.1	71.1	71.6	71.7	71.7	71.7	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥1500	71.4	72.4	72.4	72.9	73.0	73.0	73.0	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥1000	74.9	75.9	75.9	76.5	76.6	76.6	76.6	76.6	76.7	76.7	76.7	76.7	76.8	76.8	76.8	76.8
≥800	76.8	77.7	77.7	78.3	78.4	78.4	78.4	78.4	78.5	78.5	78.5	78.6	78.6	78.6	78.6	78.6
≥600	79.5	80.8	80.8	81.4	81.6	81.6	81.9	81.9	82.0	82.0	82.0	82.2	82.2	82.2	82.2	82.2
≥400	81.5	81.9	81.9	82.6	82.8	82.8	83.2	83.2	83.3	83.3	83.4	83.4	83.5	83.5	83.5	83.5
≥250	81.3	83.2	83.3	84.0	84.2	84.4	84.8	84.9	85.1	85.1	85.2	85.2	85.3	85.3	85.3	85.3
≥150	82.5	84.4	84.7	85.5	85.8	86.1	86.8	87.0	87.3	87.3	87.4	87.4	87.5	87.5	87.5	87.5
≥100	83.8	85.8	86.2	87.0	87.3	87.6	88.5	88.7	89.0	89.0	89.2	89.2	89.4	89.4	89.4	89.4
≥75	84.3	86.5	86.9	87.6	88.0	88.3	89.1	89.4	89.7	89.7	89.9	89.9	90.0	90.0	90.0	90.0
≥50	85.2	87.3	87.7	88.5	89.0	89.5	90.5	90.8	91.1	91.1	91.3	91.3	91.4	91.4	91.6	91.6
≥25	85.6	88.3	88.7	89.5	90.6	91.3	92.6	92.8	93.3	93.3	93.5	93.5	93.7	93.7	93.9	94.0
≥15	86.0	88.9	89.4	90.2	91.5	92.2	93.7	94.0	94.6	95.1	95.4	95.5	95.6	95.6	95.8	95.9
≥10	86.0	88.9	89.4	90.3	91.6	92.4	94.7	94.5	95.2	95.7	96.3	96.5	96.6	96.6	96.8	96.9
≥7.5	86.6	89.6	90.0	91.0	92.4	93.1	94.7	95.4	96.7	96.7	97.3	97.5	97.6	97.6	97.8	98.0
≥5	86.6	89.6	90.1	91.1	92.5	93.2	94.9	95.7	96.5	97.1	97.7	98.0	98.1	98.1	98.3	98.4
≥2.5	86.6	89.6	90.3	91.3	92.7	93.4	95.2	95.9	96.7	97.4	98.2	98.4	98.7	98.7	98.9	99.0
≥1.5	86.6	89.6	90.4	91.5	92.9	93.7	95.5	96.2	97.0	97.7	98.5	98.7	99.0	99.0	99.2	99.4
≥1	86.6	89.6	90.4	91.5	92.9	93.7	95.5	96.2	97.0	97.7	98.5	98.7	99.0	99.0	99.4	99.5
≥0.75	86.6	89.6	90.4	91.5	92.9	93.7	95.5	96.3	97.1	98.0	98.7	98.9	99.4	99.4	99.6	99.7
≥0.5	86.7	89.7	90.5	91.6	93.0	93.8	95.6	96.5	97.2	98.1	98.9	99.1	99.6	99.6	99.9	100.0
≥0.25	86.7	89.7	90.5	91.6	93.0	93.8	95.6	96.5	97.2	98.1	98.9	99.1	99.6	99.6	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 932

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-87

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.25	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0
NO CEILING	39.6	40.2	47.5	47.6	47.6	40.6	47.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
≥ 20000	49.4	50.2	57.6	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
≥ 18000	57.0	50.9	51.3	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
≥ 16000	57.0	50.9	51.3	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
≥ 14000	52.3	53.1	53.5	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 12000	58.1	58.9	59.4	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 10000	63.9	64.7	65.2	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
≥ 9000	64.4	65.3	65.7	65.9	65.9	65.9	65.9	65.9	65.9	65.9	66.0	66.0	66.0	66.0	66.0	66.0
≥ 8000	68.5	69.4	69.8	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.1
≥ 7000	69.1	70.0	70.4	70.6	70.8	70.8	70.8	70.8	70.8	70.8	70.9	70.9	70.9	70.9	70.9	70.9
≥ 6000	77.6	71.5	71.9	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.4	72.4	72.4	72.4	72.4	72.4
≥ 5000	75.6	76.5	76.9	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.3	77.3	77.3	77.3	77.3	77.3
≥ 4500	77.2	78.1	78.5	78.7	78.9	78.9	78.9	78.9	78.9	78.9	79.0	79.0	79.0	79.0	79.0	79.0
≥ 4000	80.1	81.2	81.6	82.2	82.6	82.6	82.7	82.7	82.7	82.7	82.8	82.8	82.8	82.8	82.8	82.8
≥ 3500	81.8	83.0	83.4	84.2	84.7	84.7	84.8	84.8	84.8	84.8	84.9	84.9	84.9	84.9	84.9	84.9
≥ 3000	83.2	84.5	85.1	86.2	86.8	86.8	86.9	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 2500	84.7	85.7	86.2	87.7	88.6	88.6	88.7	88.7	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8
≥ 2000	85.4	87.3	88.0	89.7	90.5	90.8	90.9	91.2	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 1800	85.5	87.4	88.1	89.9	90.9	91.2	91.4	91.7	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1500	86.2	88.2	88.9	90.9	91.9	92.3	92.5	92.9	93.3	93.4	93.4	93.5	93.5	93.5	93.5	93.5
≥ 1200	86.3	88.6	89.4	91.4	93.1	93.5	93.8	94.2	94.8	94.9	95.2	95.3	95.3	95.3	95.3	95.3
≥ 1000	86.5	89.0	89.9	91.9	93.8	94.2	94.5	95.2	95.8	96.6	96.8	97.0	97.0	97.0	97.0	97.0
≥ 900	86.5	89.0	90.0	92.0	93.9	94.3	94.6	95.4	96.1	97.1	97.3	97.5	97.5	97.5	97.5	97.5
≥ 800	86.6	89.1	90.1	92.2	94.0	94.4	95.1	95.9	96.9	98.1	98.4	98.6	98.6	98.6	98.6	98.6
≥ 700	86.7	89.2	90.2	92.3	94.1	94.5	95.2	96.0	97.0	98.2	98.5	98.7	98.7	98.7	98.7	98.7
≥ 600	86.7	89.2	90.2	92.5	94.3	94.7	95.4	96.3	97.3	98.5	98.9	99.1	99.1	99.1	99.1	99.1
≥ 500	86.7	89.2	90.2	92.5	94.3	94.7	95.4	96.3	97.3	98.5	98.9	99.1	99.1	99.1	99.1	99.1
≥ 400	86.7	89.2	90.2	92.5	94.3	94.7	95.5	96.5	97.4	98.7	99.2	99.5	99.5	99.5	99.6	99.6
≥ 300	86.7	89.2	90.2	92.5	94.3	94.7	95.5	96.5	97.4	98.7	99.2	99.5	99.5	99.5	99.6	99.6
≥ 200	86.7	89.2	90.2	92.5	94.3	94.7	95.5	96.5	97.4	98.9	99.5	99.7	99.7	99.7	99.9	99.9
≥ 100	86.7	89.2	90.2	92.5	94.3	94.7	95.5	96.5	97.4	98.9	99.5	99.7	99.7	99.7	99.9	99.9
≥ 0	86.7	89.2	90.2	92.5	94.3	94.7	95.5	96.5	97.4	98.9	99.5	99.7	99.7	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 970

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOPAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEAR

MAP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING	47.6	41.0	41.1	41.3	41.3	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
≥20000	50.2	50.5	50.6	51.0	51.0	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
≥18000	50.5	50.9	51.0	51.3	51.3	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
≥16000	51.3	51.6	51.7	52.0	52.0	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
≥14000	52.6	52.9	53.0	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
≥12000	57.5	57.8	58.1	58.3	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
≥10000	65.3	65.7	65.9	66.2	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥9000	65.7	66.1	66.3	66.7	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥8000	69.6	70.0	70.2	70.5	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
≥7000	70.6	71.1	71.3	71.6	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥6000	71.3	71.7	71.9	72.3	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥5000	74.6	75.1	75.4	75.7	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥4500	77.0	77.5	77.8	78.3	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥4000	79.2	80.3	81.1	81.6	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥3500	80.5	81.8	82.7	83.2	83.5	83.7	83.7	83.7	83.7	83.7	83.7	83.8	83.8	83.8	83.8	83.8
≥3000	81.6	83.2	84.5	85.2	85.7	85.8	86.1	86.1	86.1	86.1	86.2	86.2	86.2	86.2	86.2	86.2
≥2500	82.3	84.2	85.7	86.6	87.2	87.4	87.7	87.7	87.7	87.7	87.8	87.8	87.8	87.8	87.8	87.8
≥2000	84.0	86.0	87.7	88.7	89.4	89.6	90.2	90.4	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6
≥1800	84.1	86.1	88.7	89.0	89.7	89.9	90.5	90.8	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0
≥1500	84.7	87.1	89.1	90.3	91.4	91.7	92.5	92.9	93.1	93.2	93.3	93.3	93.3	93.3	93.3	93.3
≥1200	84.8	87.4	89.5	90.8	92.2	92.6	93.3	94.2	94.4	94.6	94.7	94.7	94.7	94.7	94.7	94.7
≥1000	84.8	88.7	90.1	91.4	92.8	93.2	94.2	95.2	95.5	96.3	96.5	96.5	96.5	96.5	96.5	96.5
≥900	84.8	88.0	90.1	91.4	92.8	93.3	94.4	95.4	95.8	96.7	96.9	96.9	96.9	96.9	96.9	96.9
≥800	84.8	88.1	90.3	91.7	93.1	93.7	94.7	95.8	96.2	97.1	97.3	97.3	97.3	97.3	97.3	97.3
≥700	84.8	88.1	90.4	91.8	93.3	93.9	95.2	96.5	97.0	97.8	98.2	98.2	98.5	98.5	98.5	98.5
≥600	84.8	88.1	90.4	91.8	93.4	94.7	95.3	96.7	97.2	98.1	98.4	98.4	98.8	98.8	98.8	98.8
≥500	84.8	88.1	90.4	91.8	93.5	94.1	95.4	97.0	97.5	98.4	98.7	98.7	99.2	99.2	99.2	99.2
≥400	84.8	88.2	90.5	91.9	93.7	94.2	95.5	97.1	97.6	98.5	98.8	98.8	99.4	99.4	99.4	99.4
≥300	84.8	88.2	90.5	91.9	93.7	94.2	95.5	97.1	97.6	98.5	98.8	98.8	99.4	99.4	99.4	99.4
≥200	84.8	88.2	90.5	91.9	93.7	94.2	95.5	97.1	97.6	98.5	98.8	98.8	99.4	99.4	99.4	99.4
≥100	84.8	88.2	90.5	91.9	93.7	94.2	95.5	97.1	97.6	98.5	98.8	98.8	99.4	99.4	99.4	99.4
≥50	84.8	88.2	90.5	91.9	93.7	94.2	95.5	97.1	97.6	98.5	98.8	98.8	99.4	99.4	99.4	99.4
≥20	84.8	88.2	90.5	91.9	93.7	94.2	95.5	97.1	97.6	98.5	98.8	98.8	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

717755
STATION

MAHMSTROM AFB MT
STATION NAME

74-83
YEAR

MAC
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

7170-2370
HOURS

CEILING FEET	VISIBILITY: STATUTE MILES															
	≥10	≥8	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	49.6	49.8	49.8	49.9	50.1	50.1	50.1	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
≥ 20000	56.9	57.1	57.1	57.2	57.4	57.4	57.4	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
≥ 18000	57.3	57.5	57.5	57.6	57.8	57.8	57.8	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 16000	57.4	57.6	57.6	57.7	58.0	58.0	58.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 14000	58.6	58.9	58.9	59.0	59.2	59.2	59.2	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 12000	62.7	63.0	63.0	63.1	63.3	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
≥ 10000	69.4	69.7	69.7	69.8	70.0	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 9000	69.9	70.2	70.2	70.3	70.5	70.5	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
≥ 8000	73.4	73.9	73.9	74.1	74.3	74.3	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥ 7000	74.2	74.6	74.6	74.8	75.1	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 6000	74.5	74.9	74.9	75.2	75.4	75.4	75.4	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 5000	76.6	77.3	77.4	77.6	77.8	77.8	77.8	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 4500	77.6	78.6	78.8	79.0	79.2	79.2	79.2	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 4000	80.2	81.3	81.6	81.8	82.3	82.3	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
≥ 3500	81.1	82.3	82.9	83.1	83.7	83.7	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
≥ 3000	81.8	83.3	84.0	84.3	85.2	85.2	85.2	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 2500	82.9	84.6	85.8	86.1	87.1	87.2	87.2	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 2000	83.7	85.8	87.4	87.7	88.8	88.9	88.9	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 1800	83.9	86.1	87.7	88.2	89.2	89.4	89.4	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 1500	84.4	87.1	89.4	90.0	91.2	91.4	91.6	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1200	84.6	87.6	89.9	91.5	92.2	92.5	92.8	93.4	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 1000	84.7	88.3	91.7	91.6	93.5	94.0	94.5	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 900	84.7	88.4	91.1	91.7	93.7	94.3	94.9	95.8	95.9	96.2	96.2	96.2	96.5	96.5	96.5	96.5
≥ 800	84.7	88.5	91.2	91.8	93.8	94.4	95.2	96.0	96.1	96.5	96.5	96.5	96.5	96.7	96.7	96.7
≥ 700	84.8	88.8	91.5	92.2	94.1	94.8	95.6	96.7	96.8	97.2	97.2	97.2	97.5	97.5	97.5	97.5
≥ 600	84.9	89.0	91.8	92.5	94.4	95.2	96.0	97.1	97.3	97.8	97.8	97.8	98.3	98.3	98.3	98.3
≥ 500	84.9	89.0	91.8	92.5	94.4	95.5	96.5	97.6	98.0	98.5	98.5	98.5	99.5	99.1	99.1	99.1
≥ 400	84.9	89.0	91.8	92.5	94.5	95.6	96.8	98.1	98.4	99.0	99.0	99.0	99.0	99.7	99.7	99.8
≥ 300	84.9	89.0	91.8	92.5	94.5	95.6	96.8	98.1	98.4	99.0	99.0	99.0	99.1	99.8	99.8	99.9
≥ 200	84.9	89.0	91.8	92.5	94.5	95.6	96.8	98.1	98.4	99.0	99.0	99.0	99.1	99.8	99.8	99.9
≥ 100	84.9	89.0	91.8	92.5	94.5	95.6	96.8	98.1	98.4	99.0	99.0	99.0	99.1	99.8	99.8	99.9
≥ 0	84.9	89.0	91.8	92.5	94.5	95.6	96.8	98.1	98.4	99.0	99.0	99.0	99.1	99.8	99.8	99.9

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 10-64 0-14-5 (DL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

MAP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL
HOURS 1-24

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
≥20000	43.8	44.3	44.4	44.6	44.8	44.8	44.8	44.8	44.8	44.9	44.9	44.9	44.9	44.9	44.9	44.9
≥18000	51.4	52.1	52.2	52.4	52.5	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.7	52.7	52.7	52.7
≥16000	51.9	52.6	52.7	52.9	53.1	53.1	53.1	53.1	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2
≥14000	52.3	52.9	53.1	53.3	53.4	53.4	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.6	53.6
≥12000	53.8	54.5	54.6	54.8	55.0	55.0	55.0	55.0	55.0	55.1	55.1	55.1	55.1	55.1	55.1	55.1
≥10000	58.4	59.1	59.2	59.4	59.6	59.6	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥8000	65.4	66.2	66.4	66.7	66.8	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	67.0	67.0
≥6000	66.4	67.2	67.3	67.6	67.8	67.8	67.8	67.8	67.8	67.9	67.9	67.9	67.9	67.9	67.9	67.9
≥4000	69.8	70.7	70.9	71.2	71.4	71.4	71.4	71.5	71.5	71.5	71.5	71.5	71.6	71.6	71.6	71.6
≥2000	70.6	71.5	71.7	72.1	72.2	72.2	72.3	72.3	72.3	72.4	72.4	72.4	72.4	72.4	72.5	72.5
≥1000	71.5	72.4	72.5	72.9	73.1	73.1	73.1	73.2	73.2	73.2	73.3	73.3	73.3	73.3	73.3	73.3
≥500	74.0	75.0	75.3	75.6	75.8	75.8	75.9	75.9	75.9	76.0	76.0	76.0	76.0	76.0	76.1	76.1
≥250	75.4	76.5	76.8	77.1	77.4	77.4	77.5	77.5	77.5	77.6	77.6	77.6	77.6	77.6	77.7	77.7
≥150	78.1	79.4	79.9	80.3	80.7	80.8	80.9	81.0	81.0	81.1	81.1	81.1	81.1	81.1	81.2	81.2
≥100	79.2	80.8	81.4	82.0	82.5	82.5	82.7	82.7	82.8	82.8	82.9	82.9	82.9	82.9	83.0	83.0
≥75	80.1	82.0	82.8	83.5	84.2	84.2	84.4	84.6	84.6	84.7	84.8	84.8	84.9	84.9	84.9	84.9
≥50	80.8	82.9	83.9	84.7	85.5	85.7	85.9	86.0	86.1	86.2	86.3	86.3	86.4	86.4	86.4	86.4
≥25	81.7	84.7	85.1	86.1	86.9	87.2	87.5	87.8	87.9	88.0	88.1	88.1	88.2	88.2	88.3	88.3
≥15	81.9	84.3	85.4	86.4	87.3	87.5	87.8	88.2	88.3	88.4	88.5	88.5	88.6	88.6	88.7	88.7
≥10	82.7	85.2	86.5	87.6	88.7	89.0	89.4	89.8	90.0	90.2	90.3	90.4	90.5	90.5	90.5	90.6
≥5	83.1	85.8	87.2	88.3	89.8	90.2	90.8	91.5	91.8	92.1	92.2	92.2	92.4	92.4	92.4	92.5
≥2	83.1	86.3	87.8	89.1	90.8	91.2	92.1	92.9	93.3	93.8	94.0	94.0	94.2	94.2	94.3	94.3
≥1	83.2	86.3	87.9	89.2	90.9	91.4	92.3	93.3	93.7	94.4	94.7	94.7	94.9	95.0	95.0	95.1
≥0.5	83.3	86.5	88.1	89.4	91.3	91.8	92.7	93.8	94.3	95.0	95.4	95.5	95.7	95.8	95.8	95.9
≥0.25	83.3	86.8	88.4	89.8	91.7	92.2	93.3	94.4	95.0	95.8	96.2	96.3	96.6	96.6	96.7	96.7
≥0.1	83.3	86.9	88.6	90.1	92.1	92.6	93.7	94.9	95.5	96.5	97.0	97.1	97.4	97.4	97.6	97.6
≥0.05	83.4	87.2	88.9	90.4	92.5	93.1	94.2	95.6	96.2	97.2	97.8	97.9	98.3	98.3	98.4	98.5
≥0.025	83.5	87.4	89.1	90.7	92.8	93.4	94.6	96.1	96.7	97.8	98.3	98.4	98.8	98.9	99.1	99.2
≥0.01	83.5	87.4	89.2	90.8	92.9	93.5	94.7	96.2	96.8	97.9	98.5	98.6	99.1	99.1	99.3	99.5
≥0.005	83.5	87.4	89.2	90.8	92.9	93.5	94.8	96.3	96.9	98.1	98.7	98.8	99.3	99.3	99.6	99.9
≥0.0025	83.5	87.4	89.2	90.8	92.9	93.5	94.8	96.3	96.9	98.1	98.8	98.9	99.4	99.4	99.7	100.0
≥0.001	83.5	87.4	89.2	90.8	92.9	93.5	94.8	96.3	96.9	98.1	98.8	98.9	99.4	99.4	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 7440

USAF ETAC FORM 10-4-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

707755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

APR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0000
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.25	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ 0
NO CEILING	57.6	57.6	57.6	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 20000	61.7	61.7	61.7	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
≥ 18000	61.8	61.8	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 16000	61.9	61.9	61.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥ 14000	62.3	62.3	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥ 12000	65.1	65.1	65.1	65.2	65.2	65.2	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 10000	72.9	73.1	73.1	73.2	73.2	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 9000	73.9	74.1	74.1	74.2	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 8000	75.0	75.2	75.2	75.3	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.6	75.6	75.6	75.6	75.6
≥ 7000	75.7	75.9	75.9	76.0	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.2	76.2	76.2	76.2	76.2
≥ 6000	76.7	76.9	76.9	77.0	77.0	77.0	77.1	77.1	77.1	77.1	77.1	77.2	77.2	77.2	77.2	77.2
≥ 5000	79.8	80.1	80.1	80.2	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.4	80.4	80.4	80.4	80.4
≥ 4500	80.6	80.9	80.9	81.0	81.0	81.0	81.1	81.1	81.1	81.1	81.1	81.2	81.2	81.2	81.2	81.2
≥ 4000	82.4	82.8	82.8	82.9	82.9	82.9	83.0	83.0	83.0	83.0	83.0	83.1	83.1	83.1	83.1	83.1
≥ 3500	83.2	83.7	83.7	83.8	83.8	83.8	83.9	83.9	83.9	83.9	84.0	84.0	84.0	84.0	84.0	84.0
≥ 3000	84.1	84.7	84.7	84.8	84.8	84.8	84.9	85.0	85.0	85.0	85.1	85.1	85.1	85.1	85.1	85.1
≥ 2500	85.2	85.9	86.1	86.3	86.7	86.7	86.8	86.8	86.8	86.8	86.9	86.9	86.9	86.9	86.9	86.9
≥ 2000	85.3	86.3	86.7	86.9	87.2	87.2	87.4	87.4	87.4	87.4	87.6	87.6	87.6	87.6	87.6	87.6
≥ 1800	85.4	86.7	87.0	87.2	87.6	87.7	88.1	88.1	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.2
≥ 1500	85.8	87.7	89.0	88.4	89.0	89.3	89.8	89.8	89.8	89.8	89.9	89.9	89.9	89.9	89.9	89.9
≥ 1200	86.4	88.4	88.8	89.3	90.1	90.4	91.1	91.1	91.1	91.1	91.2	91.2	91.2	91.2	91.2	91.2
≥ 1000	86.6	88.7	89.2	89.8	90.8	91.1	91.9	92.4	92.4	92.6	92.7	92.7	92.7	92.7	92.7	92.7
≥ 900	86.9	89.0	89.6	90.1	91.1	91.4	92.3	92.9	92.9	93.1	93.2	93.2	93.2	93.2	93.2	93.2
≥ 800	87.2	89.3	89.9	90.4	91.6	91.9	92.8	93.4	93.4	93.7	93.8	93.8	93.8	93.8	93.8	93.8
≥ 700	87.2	89.3	89.9	90.4	91.6	91.9	92.8	93.4	93.4	93.8	93.9	93.9	94.0	94.0	94.0	94.0
≥ 600	87.7	89.8	90.3	91.0	92.2	92.6	93.6	94.2	94.2	94.8	94.9	94.9	95.0	95.0	95.0	95.0
≥ 500	87.9	90.3	91.0	91.6	93.0	93.3	94.3	95.2	95.2	96.1	96.2	96.2	96.8	96.8	96.8	96.8
≥ 400	87.9	90.3	91.1	91.8	93.3	93.9	95.4	96.3	96.4	97.4	97.8	97.8	98.4	98.4	98.4	98.4
≥ 300	88.1	90.6	91.3	92.1	93.8	94.3	95.9	96.9	97.0	98.0	98.3	98.3	99.1	99.1	99.1	99.1
≥ 200	88.1	90.6	91.4	92.2	93.9	94.4	96.0	97.0	97.1	98.1	98.4	98.7	99.4	99.4	99.4	99.4
≥ 100	88.1	90.6	91.4	92.2	93.9	94.4	96.0	97.1	97.2	98.3	98.7	98.9	99.8	99.8	99.8	99.8
≥ 0	88.1	90.6	91.4	92.2	93.9	94.4	96.0	97.1	97.2	98.3	98.7	98.9	99.8	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MAHMSTROM AFB MT

74-83

APR

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

7320-0500
HOURS

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .03	≥ .01
NO CEILING	56.3	56.9	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
≥ 20000	62.7	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 18000	63.0	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥ 16000	63.1	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
≥ 14000	63.4	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
≥ 12000	65.2	65.8	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
≥ 10000	69.9	70.6	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 9000	70.4	71.1	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 8000	72.0	72.8	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥ 7000	72.3	73.1	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 6000	73.4	74.3	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 5000	75.9	76.8	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 4500	78.3	79.2	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 4000	79.8	81.0	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 3500	81.9	82.1	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 3000	81.6	83.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
≥ 2500	82.7	84.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 2000	83.0	85.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 1800	83.2	85.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
≥ 1500	83.9	87.3	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 1200	84.6	87.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 1000	85.1	88.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 900	85.8	89.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 800	85.8	89.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 700	85.9	89.1	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 600	85.9	89.3	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 500	86.0	90.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 400	86.0	90.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 300	86.1	90.1	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 200	86.1	90.1	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 100	86.1	90.1	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 0	86.1	90.1	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

APR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

7600-0890
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	48.7	49.0	49.1	49.4	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.8	49.9	49.9
≥ 20000	55.3	55.7	55.8	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.6	56.8	56.8
≥ 18000	55.0	56.3	56.4	56.9	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.2	57.4	57.4
≥ 16000	56.1	56.4	56.6	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.3	57.6	57.6
≥ 14000	57.3	57.7	57.8	58.2	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.6	58.8	58.8
≥ 12000	67.9	61.2	61.3	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	62.1	62.3	62.3
≥ 10000	66.8	67.3	67.4	67.9	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.2	68.6	68.7
≥ 9000	67.4	68.1	68.2	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	69.0	69.3	69.4
≥ 8000	71.0	71.8	71.9	72.4	72.7	72.7	72.8	72.8	72.8	72.8	72.8	72.8	72.8	73.0	73.3	73.4
≥ 7000	71.6	72.3	72.4	73.0	73.2	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.6	73.9	74.0
≥ 6000	72.0	73.0	73.1	73.8	74.0	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.3	74.7	74.8
≥ 5000	74.6	75.8	75.9	76.6	76.8	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	77.1	77.4	77.6
≥ 4500	75.8	77.1	77.2	77.9	78.1	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.4	78.8	78.9
≥ 4000	77.8	79.4	79.7	80.3	80.8	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	81.1	81.4	81.7
≥ 3500	79.6	81.3	81.6	82.2	82.8	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	83.1	83.4	83.7
≥ 3000	81.0	82.9	83.2	84.2	84.8	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	85.1	85.4	85.7
≥ 2500	82.7	84.1	84.7	85.8	86.4	86.4	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.8	87.1	87.3
≥ 2000	82.7	85.2	85.8	87.1	87.9	87.9	88.1	88.4	88.4	88.4	88.4	88.4	88.4	88.7	89.0	89.2
≥ 1800	82.9	85.4	86.0	87.6	88.4	88.4	88.7	89.0	89.0	89.0	89.0	89.0	89.0	89.2	89.6	89.8
≥ 1500	84.1	86.7	87.2	88.8	89.7	89.7	89.9	90.2	90.2	90.2	90.2	90.2	90.2	90.4	90.8	91.0
≥ 1200	84.3	86.9	87.4	89.1	90.1	90.3	90.8	91.1	91.2	91.2	91.2	91.2	91.2	91.4	91.8	92.0
≥ 1000	84.8	87.6	88.1	89.9	91.0	91.3	92.0	92.3	92.4	92.4	92.4	92.4	92.4	92.8	93.1	93.3
≥ 900	84.9	87.8	88.3	90.1	91.3	91.7	92.3	92.7	92.8	92.8	92.8	92.8	92.8	93.1	93.4	93.7
≥ 800	85.0	87.9	88.4	90.2	91.4	91.8	92.4	93.0	93.1	93.1	93.1	93.1	93.1	93.4	93.8	94.0
≥ 700	85.0	87.9	88.6	90.6	91.8	92.1	92.8	93.3	93.6	93.9	94.0	94.0	94.0	94.2	94.6	94.8
≥ 600	85.3	88.1	88.8	90.8	92.3	92.8	93.4	94.1	94.3	94.7	94.8	94.8	94.8	95.3	95.7	95.9
≥ 500	85.1	88.2	88.9	91.0	92.7	93.1	93.9	94.7	94.9	95.3	95.7	95.8	95.8	96.4	96.8	97.0
≥ 400	85.1	88.3	89.1	91.2	92.9	93.3	94.3	95.4	95.7	96.2	96.7	96.8	96.8	97.6	97.9	98.2
≥ 300	85.1	88.3	89.1	91.4	93.2	93.7	94.9	96.0	96.3	97.1	97.6	97.7	97.7	98.4	98.9	99.2
≥ 200	85.1	88.3	89.1	91.4	93.2	93.7	94.9	96.0	96.3	97.1	97.6	97.7	97.7	98.4	98.9	99.2
≥ 100	85.1	88.3	89.1	91.4	93.2	93.7	94.9	96.0	96.3	97.1	97.6	97.7	97.7	98.4	98.9	99.2
≥ 0	85.1	88.3	89.1	91.4	93.2	93.7	94.9	96.0	96.3	97.1	97.6	97.7	97.7	98.4	98.9	99.2

TOTAL NUMBER OF OBSERVATIONS

900

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

APD
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1900-1100
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	48.7	48.1	48.1	48.3	48.3	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 20000	55.0	55.1	55.1	55.3	55.3	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 18000	55.8	55.9	55.9	56.1	56.1	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
≥ 16000	55.8	55.9	55.9	56.1	56.1	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
≥ 14000	56.7	56.8	56.8	57.0	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 12000	67.6	67.7	67.7	67.9	67.9	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 10000	67.3	67.6	67.6	67.8	67.8	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
≥ 9000	68.7	68.9	68.9	69.1	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
≥ 8000	72.7	72.9	72.9	73.1	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥ 7000	73.6	73.9	73.9	74.1	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 6000	74.7	74.3	74.3	74.6	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 5000	75.6	75.9	75.9	76.1	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 4500	76.9	77.2	77.2	77.4	77.4	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
≥ 4000	79.6	80.2	80.2	80.6	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 3500	80.6	81.2	81.3	81.7	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 3000	83.1	84.0	84.2	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 2500	84.3	85.4	85.8	86.4	86.6	86.9	87.7	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 2000	85.2	86.6	86.9	87.6	87.7	88.0	88.1	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 1800	85.4	86.8	87.1	87.9	88.0	88.3	88.4	88.4	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 1600	86.8	88.6	88.9	89.8	89.9	90.3	90.4	90.4	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 1400	87.1	89.1	89.4	90.4	90.7	91.1	91.2	91.3	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1200	87.6	89.7	90.3	91.7	91.9	92.4	92.7	92.9	93.7	93.1	93.2	93.2	93.2	93.2	93.2	93.2
≥ 900	87.7	90.0	90.7	92.2	92.4	93.7	93.2	93.4	93.6	93.8	93.9	93.9	93.9	93.9	93.9	93.9
≥ 800	87.9	90.3	91.0	92.9	93.4	94.0	94.2	94.6	94.7	94.9	95.0	95.0	95.0	95.0	95.0	95.0
≥ 700	88.1	90.6	91.7	93.2	93.8	94.3	94.6	94.9	95.0	95.2	95.3	95.3	95.3	95.3	95.3	95.3
≥ 600	88.1	90.9	91.7	93.6	94.1	94.9	95.0	95.3	95.6	96.0	96.1	96.1	96.2	96.4	96.4	96.4
≥ 500	88.1	90.9	91.8	93.8	94.8	95.4	95.9	96.3	96.8	97.3	97.4	97.4	97.7	97.9	97.9	97.9
≥ 400	88.1	90.9	92.1	94.1	95.1	95.8	96.3	96.9	97.4	98.0	98.2	98.2	98.6	98.8	98.8	98.8
≥ 300	88.1	90.9	92.1	94.3	95.4	96.2	96.9	97.4	98.0	98.6	98.8	98.9	99.2	99.4	99.4	99.4
≥ 200	88.1	90.9	92.1	94.3	95.4	96.2	96.9	97.4	98.0	98.6	98.8	98.9	99.2	99.4	99.4	99.4
≥ 100	88.1	90.9	92.1	94.3	95.4	96.2	96.9	97.4	98.0	98.6	98.8	99.0	99.6	99.8	99.8	99.8
≥ 0	88.1	90.9	92.1	94.3	95.4	96.2	96.9	97.4	98.0	98.6	98.9	99.1	99.8	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

APR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1700-1400
-3.00-1.50

CEILING FEET	VISIBILITY: STATUTE MILES															
	≥10	≥8	≥6	≥4	≥3	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
≥ 20000	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
≥ 18000	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 16000	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 14000	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
≥ 12000	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
≥ 10000	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
≥ 9000	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 8000	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 7000	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
≥ 6000	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 5000	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 4500	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 4000	80.6	80.6	80.6	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
≥ 3500	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 3000	86.1	86.7	86.7	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 2500	87.2	87.8	87.9	88.3	88.3	88.6	88.6	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 2000	88.4	89.4	89.6	90.0	90.0	90.2	90.2	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 1800	88.7	89.7	89.8	90.2	90.2	90.4	90.4	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 1500	89.7	90.9	91.2	91.9	91.9	92.2	92.3	92.4	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 1200	90.1	91.7	92.1	93.0	93.1	93.6	93.7	93.8	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 1000	90.1	91.8	92.2	93.3	93.4	93.9	94.1	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 900	90.4	92.2	92.8	94.0	94.1	94.6	94.8	94.9	94.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 800	90.6	92.4	93.1	94.4	94.7	95.1	95.6	95.9	95.9	96.2	96.2	96.3	96.3	96.3	96.3	96.3
≥ 700	90.9	93.1	94.0	95.4	95.7	96.1	96.6	97.0	97.0	97.4	97.4	97.6	97.6	97.6	97.6	97.6
≥ 600	90.9	93.2	94.1	95.6	95.8	96.3	96.8	97.2	97.2	97.8	97.8	98.0	98.0	98.1	98.1	98.1
≥ 500	91.1	93.4	94.8	96.4	96.7	97.3	98.1	98.6	98.6	99.1	99.1	99.3	99.3	99.4	99.4	99.4
≥ 400	91.1	93.4	94.8	96.4	96.7	97.3	98.1	98.6	98.6	99.1	99.1	99.3	99.3	99.4	99.6	99.6
≥ 300	91.1	93.4	94.8	96.4	96.7	97.3	98.1	98.6	98.6	99.1	99.1	99.3	99.3	99.4	99.6	99.6
≥ 200	91.1	93.4	94.8	96.6	96.8	97.4	98.2	98.7	98.9	99.4	99.4	99.7	99.7	99.8	99.9	99.9
≥ 100	91.1	93.4	94.8	96.6	96.8	97.4	98.2	98.7	98.9	99.4	99.4	99.7	99.7	99.9	100.0	100.0
≥ 0	91.1	93.4	94.8	96.6	96.8	97.4	98.2	98.7	98.9	99.4	99.4	99.7	99.7	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 970

USAF ETAC FORM 12-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

APR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1577-1770
TIME

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0.005
NO CEILING	47.3	40.1	47.1	47.1	47.1	47.1	47.1	47.1	40.1	40.1	40.1	40.1	40.1	40.1	47.1	40.1
≥ 20000	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 18000	52.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 16000	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
≥ 14000	53.9	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 12000	57.3	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 10000	62.1	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
≥ 9000	62.4	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 8000	66.3	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 7000	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 6000	69.4	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
≥ 5000	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 4500	79.4	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 4000	83.2	83.3	83.4	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
≥ 3500	85.7	85.8	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 3000	87.9	88.3	88.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 2500	89.2	89.9	90.3	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 2000	90.1	91.1	91.6	91.8	91.9	92.2	92.2	92.2	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 1800	90.2	91.2	91.7	92.0	92.1	92.2	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1500	91.7	92.9	93.7	94.1	94.6	94.7	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 1200	92.4	93.8	94.6	95.0	95.4	95.6	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 1000	92.8	94.2	95.1	95.7	96.1	96.6	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 900	92.8	94.4	95.3	95.9	96.3	96.8	97.1	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 800	92.9	94.6	95.4	96.0	96.6	97.0	97.2	97.2	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 700	93.1	94.8	95.9	96.4	97.0	97.4	97.8	97.8	98.0	98.3	98.3	98.4	98.4	98.4	98.4	98.4
≥ 600	93.2	94.9	96.1	96.7	97.2	97.7	98.0	98.0	98.2	98.6	98.6	98.8	98.8	98.8	98.8	98.8
≥ 500	93.3	95.1	96.3	97.1	97.7	98.1	98.4	98.6	98.8	99.2	99.2	99.6	99.7	99.7	99.7	99.7
≥ 400	93.3	95.1	96.3	97.1	97.7	98.1	98.4	98.6	98.8	99.4	99.4	99.9	100.0	100.0	100.0	100.0
≥ 300	93.3	95.1	96.3	97.1	97.7	98.1	98.4	98.6	98.8	99.4	99.4	99.9	100.0	100.0	100.0	100.0
≥ 200	93.3	95.1	96.3	97.1	97.7	98.1	98.4	98.6	98.8	99.4	99.4	99.9	100.0	100.0	100.0	100.0
≥ 100	93.3	95.1	96.3	97.1	97.7	98.1	98.4	98.6	98.8	99.4	99.4	99.9	100.0	100.0	100.0	100.0
≥ 50	93.3	95.1	96.3	97.1	97.7	98.1	98.4	98.6	98.8	99.4	99.4	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFD WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-83

APP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1977-2000

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0.005
≥10000	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
≥9000	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
≥8000	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥7000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥6000	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
≥5000	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥4000	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
≥3000	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥2000	73.4	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥1000	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥500	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥400	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥300	84.6	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥250	87.2	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥200	89.7	89.7	89.8	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥150	89.9	91.1	91.1	91.1	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥100	91.1	92.7	92.9	93.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥80	91.3	93.0	93.2	93.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥60	91.9	93.9	94.3	94.4	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥40	92.2	94.2	94.7	95.1	95.4	95.6	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥30	92.4	94.8	95.3	96.0	96.3	96.4	96.4	96.4	96.4	96.7	96.8	96.8	96.8	96.8	96.8	96.8
≥20	92.6	94.9	95.4	96.1	96.4	96.6	96.6	96.6	96.6	96.9	97.0	97.0	97.0	97.0	97.0	97.0
≥15	92.6	94.9	95.4	96.2	96.9	97.0	97.0	97.0	97.3	97.8	97.9	97.9	97.9	97.9	97.9	97.9
≥10	92.9	95.3	95.9	96.7	97.3	97.4	97.4	97.7	98.1	98.6	98.7	98.8	98.8	98.8	98.8	98.8
≥5	93.0	95.4	96.0	96.9	97.6	97.8	97.9	98.1	98.7	99.1	99.2	99.3	99.4	99.4	99.4	99.4
≥3	93.0	95.4	96.0	96.9	97.6	97.8	98.2	98.4	99.0	99.4	99.6	99.8	99.9	99.9	99.9	99.9
≥2	93.0	95.4	96.0	96.9	97.6	97.8	98.2	98.4	99.0	99.6	99.7	99.9	100.0	100.0	100.0	100.0
≥1	93.0	95.4	96.0	96.9	97.6	97.8	98.2	98.4	99.0	99.6	99.7	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

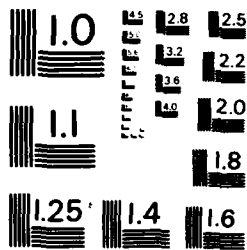
UNCLASSIFIED

USAFETAC/DS-84/007 SBI-AD-E850 615

F/G 4/2

NL

3/6



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS - 1963-A

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-87

APP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300

ELEVATION FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0.005
≥ 20000	54.1	54.4	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 18000	60.8	61.1	61.3	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
≥ 16000	60.8	61.1	61.3	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
≥ 14000	61.6	61.9	62.1	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
≥ 12000	65.7	66.0	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 10000	71.3	71.8	72.0	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
≥ 8000	71.7	72.1	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 6000	74.2	74.7	74.9	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
≥ 4000	75.7	75.4	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
≥ 2000	76.6	77.0	77.2	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 1000	80.1	80.8	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
≥ 500	81.4	82.1	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
≥ 200	83.8	84.6	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 100	85.1	86.1	86.3	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 50	86.7	87.6	88.0	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 25	86.6	88.2	88.7	89.1	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 10	86.9	88.9	89.3	90.2	90.4	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 5	87.1	89.3	89.9	90.9	91.1	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 2.5	87.9	90.2	90.9	92.0	92.2	92.2	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1.5	88.4	90.8	91.6	92.7	93.0	93.0	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 1.0	88.4	90.9	91.7	92.8	93.6	93.6	94.0	94.1	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2
≥ 0.5	88.4	90.9	91.7	92.8	93.6	93.6	94.0	94.1	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2
≥ 0.25	88.6	91.0	91.9	93.3	94.1	94.1	94.6	95.1	95.1	95.2	95.3	95.3	95.3	95.3	95.3	95.3
≥ 0.1	88.9	91.3	92.2	93.8	94.6	94.6	95.1	95.7	95.7	96.0	96.1	96.2	96.2	96.2	96.2	96.2
≥ 0.05	89.7	92.1	93.1	94.8	95.6	95.6	96.1	96.7	96.7	97.0	97.1	97.3	97.3	97.3	97.4	97.4
≥ 0.025	89.9	92.4	93.4	95.1	95.9	95.9	96.7	97.3	97.4	97.9	98.1	98.3	98.6	98.6	98.7	98.7
≥ 0.01	89.9	92.4	93.4	95.1	96.1	96.1	97.0	97.7	97.8	98.2	98.4	98.7	98.9	98.9	99.0	99.0
≥ 0.005	89.9	92.4	93.4	95.1	96.3	96.3	97.2	98.0	98.2	98.8	99.0	99.2	99.7	99.7	99.8	99.8
≥ 0.0025	89.9	92.4	93.4	95.1	96.3	96.4	97.3	98.1	98.3	98.9	99.1	99.3	99.8	99.8	99.9	99.9
≥ 0.001	89.9	92.4	93.4	95.1	96.3	96.4	97.3	98.1	98.3	98.9	99.2	99.4	99.9	99.9	100.0	100.0
≥ 0.0005	89.9	92.4	93.4	95.1	96.3	96.4	97.3	98.1	98.3	98.9	99.2	99.4	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

APR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
MONTHS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING	49.2	49.4	49.5	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
≥20000	57.1	57.2	57.3	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.5	57.5
≥18000	57.5	57.6	57.7	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.9	57.9
≥16000	57.5	57.7	57.8	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	58.0	58.0
≥14000	58.3	58.5	58.5	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.8	58.8
≥12000	61.6	61.8	61.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.1	62.1
≥10000	67.5	67.8	67.9	68.0	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.2	68.2
≥9000	68.3	68.5	68.6	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.9	68.9
≥8000	71.2	71.6	71.7	71.8	71.8	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	72.0	72.0
≥7000	72.0	72.3	72.4	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.7	72.7
≥6000	73.3	73.7	73.8	73.9	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.1	74.1
≥5000	76.9	77.4	77.5	77.6	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.8	77.9
≥4500	78.6	79.1	79.2	79.4	79.4	79.4	79.4	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.6	79.6
≥4000	81.5	82.1	82.3	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.7	82.8
≥3500	83.2	83.9	84.1	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.5	84.5	84.5	84.5	84.6	84.6
≥3000	84.8	85.9	86.2	86.5	86.6	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.8	86.8	86.9
≥2500	85.9	87.1	87.5	87.9	88.1	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.4	88.4	88.5
≥2000	86.6	88.2	88.6	89.1	89.3	89.4	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.8	89.8
≥1800	86.8	88.4	88.9	89.4	89.7	89.8	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.2	90.2	90.3
≥1500	87.7	89.7	90.3	91.0	91.3	91.5	91.7	91.8	91.8	91.9	91.9	91.9	91.9	92.0	92.0	92.0
≥1200	88.2	90.3	90.9	91.7	92.2	92.4	92.7	92.8	92.8	92.9	92.9	92.9	92.9	93.0	93.0	93.1
≥1000	88.5	90.7	91.4	92.4	92.9	93.2	93.7	93.9	93.9	94.0	94.1	94.1	94.1	94.2	94.2	94.2
≥900	88.7	91.0	91.7	92.7	93.3	93.6	94.1	94.3	94.3	94.5	94.5	94.5	94.5	94.6	94.6	94.7
≥800	88.8	91.2	91.9	93.0	93.7	94.0	94.5	94.9	95.0	95.2	95.3	95.3	95.3	95.4	95.4	95.4
≥700	89.1	91.4	92.3	93.4	94.1	94.4	95.0	95.4	95.6	95.9	95.9	96.0	96.0	96.1	96.1	96.2
≥600	89.2	91.7	92.6	93.7	94.5	94.8	95.4	95.9	96.1	96.5	96.6	96.7	96.8	96.9	96.9	96.9
≥500	89.3	92.0	92.9	94.2	95.1	95.4	96.1	96.7	96.9	97.5	97.6	97.8	98.0	98.1	98.1	98.2
≥400	89.3	92.0	93.0	94.3	95.3	95.7	96.6	97.3	97.5	98.1	98.3	98.5	98.8	98.9	99.0	99.0
≥300	89.3	92.0	93.1	94.4	95.5	95.9	96.9	97.6	97.8	98.5	98.7	98.9	99.3	99.4	99.5	99.5
≥200	89.3	92.0	93.1	94.5	95.5	95.9	96.9	97.6	97.9	98.6	98.8	99.0	99.4	99.5	99.6	99.7
≥100	89.3	92.0	93.1	94.5	95.5	95.9	96.9	97.6	97.9	98.7	98.9	99.1	99.5	99.7	99.8	99.9
≥0	89.3	92.0	93.1	94.5	95.5	95.9	96.9	97.6	97.9	98.7	98.9	99.1	99.5	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 7200

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-83

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥8	≥6	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
≥10000	52.7	53.0	53.0	53.0	53.0	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
2 18000	58.9	59.4	59.4	59.4	59.4	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
2 16000	59.0	59.5	59.5	59.5	59.5	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
2 14000	59.7	59.5	59.5	59.5	59.5	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
2 12000	62.4	62.8	62.8	62.8	62.8	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
2 10000	68.8	69.5	69.5	69.5	69.5	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
2 9000	69.7	70.3	70.3	70.3	70.3	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
2 8000	72.5	73.1	73.1	73.1	73.1	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
2 7000	73.2	73.9	73.9	73.9	73.9	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
2 6000	74.1	74.7	74.7	74.7	74.7	74.9	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
2 5000	78.5	79.2	79.2	79.2	79.2	79.5	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
2 4500	80.9	81.8	81.8	81.8	81.8	82.0	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
2 4000	83.1	84.1	84.1	84.1	84.1	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
2 3500	85.5	86.8	87.2	87.2	87.2	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
2 3000	86.3	87.8	88.5	88.6	88.6	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
2 2500	87.1	88.6	89.5	89.6	89.6	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
2 2000	87.8	89.5	90.4	90.5	90.5	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
2 1800	87.8	89.7	90.6	90.9	90.9	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
2 1500	88.3	90.1	91.3	91.5	91.6	91.8	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
2 1200	88.9	91.0	92.4	92.7	93.0	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
2 1000	89.2	91.4	93.7	93.5	94.1	94.3	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
2 900	89.6	92.0	94.1	94.4	94.9	95.2	95.5	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
2 800	89.6	92.3	94.4	94.8	95.4	95.7	96.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
2 700	89.9	92.8	94.9	95.4	95.9	96.2	96.6	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
2 600	90.2	93.2	95.7	96.2	96.8	97.1	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
2 500	90.2	93.4	96.3	97.0	97.7	98.1	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
2 400	90.2	93.4	96.3	97.0	97.7	98.1	98.5	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0
2 300	90.2	93.4	96.5	97.1	98.0	98.3	98.7	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
2 200	91.2	93.7	96.7	97.3	98.3	98.6	99.0	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
2 100	90.2	93.7	96.7	97.3	98.3	98.7	99.1	99.6	99.6	99.7	99.9	100.0	100.0	100.0	100.0	100.0
2 0	90.2	93.7	96.7	97.3	98.3	98.7	99.1	99.6	99.6	99.7	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 12-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AFW WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT

74-83

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500

VISIBILITY STATUTE MILES	VISIBILITY STATUTE MILES															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1000	50.0	50.0	50.1	50.2	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
900	55.3	55.3	55.4	55.5	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
800	55.4	55.4	55.5	55.6	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
700	55.4	55.4	55.5	55.6	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
600	55.8	55.8	55.9	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
500	58.7	58.7	58.8	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
400	66.8	66.8	66.9	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
300	67.7	67.7	67.8	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
200	71.3	71.3	71.4	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
100	71.7	71.8	71.9	72.0	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
5000	72.6	72.7	72.8	72.9	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
4000	77.2	77.6	77.7	77.8	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
3000	79.7	80.1	80.2	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
2000	81.7	82.2	82.4	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
1000	83.8	84.8	85.4	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
900	84.5	86.1	86.7	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
800	85.2	87.0	87.5	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
700	85.6	87.8	88.5	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
600	85.9	88.4	89.1	89.2	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
500	86.5	89.0	89.9	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
400	87.4	90.0	91.5	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
300	87.4	90.8	92.5	92.7	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
200	87.5	90.9	92.8	93.1	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
100	87.5	91.0	92.9	93.2	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
5000	88.0	91.4	93.3	93.8	94.5	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
4000	88.6	92.3	94.7	95.4	96.1	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
3000	88.7	92.4	95.2	95.9	96.8	97.3	97.5	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
2000	88.7	92.4	95.2	95.9	96.9	97.5	98.0	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
1000	88.7	92.4	95.3	96.0	97.2	97.8	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
900	89.0	92.7	95.7	96.6	97.8	98.5	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
800	89.0	92.7	95.7	96.6	97.8	98.5	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
700	89.0	92.7	95.7	96.6	97.8	98.5	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
600	89.0	92.7	95.7	96.6	97.8	98.5	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
500	89.0	92.7	95.7	96.6	97.8	98.5	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
400	89.0	92.7	95.7	96.6	97.8	98.5	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
300	89.0	92.7	95.7	96.6	97.8	98.5	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
200	89.0	92.7	95.7	96.6	97.8	98.5	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
100	89.0	92.7	95.7	96.6	97.8	98.5	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
0	89.0	92.7	95.7	96.6	97.8	98.5	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 101-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT

STATION NAME

74-83

YEAR

MAY

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

7677-0800

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .03	≥ .01
NO. OF OBSERVATIONS	46.6	46.6	46.8	46.8	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
≥ 20000	53.7	53.7	53.7	53.3	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
≥ 18000	53.2	53.2	53.5	53.5	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 16000	53.3	53.3	53.7	53.7	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥ 14000	54.3	54.3	54.6	54.6	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 12000	58.2	58.2	58.5	58.5	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 10000	68.7	68.7	68.4	68.4	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
≥ 9000	69.6	69.7	70.7	70.0	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥ 8000	73.9	74.0	74.3	74.3	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 7000	74.5	74.6	74.9	74.9	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 6000	75.5	75.6	75.9	75.9	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 5000	77.8	78.7	78.5	78.6	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
≥ 4500	78.9	79.0	79.6	79.7	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 4000	80.9	81.2	81.7	81.8	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 3500	81.7	82.2	82.7	82.8	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 3000	83.7	83.9	84.5	84.7	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 2500	83.4	84.3	84.9	85.2	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 2000	84.3	85.5	86.5	86.7	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
≥ 1800	84.5	85.8	86.8	87.0	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 1600	85.4	87.0	88.4	88.7	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥ 1400	86.1	88.5	90.3	90.6	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 1200	86.8	89.1	91.2	91.7	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 1000	87.0	89.4	91.4	91.9	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 900	87.3	89.8	91.8	92.4	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 800	87.3	89.8	91.8	92.4	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 700	87.8	90.4	92.4	93.2	94.0	94.0	94.0	94.1	94.1	94.3	94.4	94.4	94.4	94.4	94.4	94.4
≥ 600	88.6	91.5	93.8	94.6	95.8	95.9	96.1	96.5	96.5	96.8	96.9	96.9	96.9	96.9	96.9	96.9
≥ 500	88.7	91.6	94.7	94.9	96.2	96.3	96.6	97.2	97.2	97.5	97.6	97.6	97.6	97.6	97.6	97.6
≥ 400	88.8	91.8	94.2	95.3	96.7	96.9	97.3	98.0	98.1	98.5	98.6	98.6	98.6	98.6	98.6	98.6
≥ 300	88.8	91.8	94.4	95.5	97.0	97.2	97.6	98.3	98.4	99.0	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200	88.8	92.2	94.7	95.9	97.4	97.6	98.3	98.9	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	88.8	92.2	94.7	95.9	97.4	97.6	98.3	98.9	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	88.8	92.2	94.7	95.9	97.4	97.6	98.3	98.9	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 12-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MAHMSTROM AFB MT

74-83

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1900-1100

CEILING FEET	VISIBILITY - STATUTE MILES															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
2 10000	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
2 9000	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
2 8000	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
2 7000	55.7	55.7	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
2 6000	56.9	56.9	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
2 5000	61.2	61.3	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
2 4000	66.6	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
2 3000	67.8	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
2 2000	70.9	71.0	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
2 1000	71.9	72.0	72.0	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
2 6000	73.0	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
2 5000	75.7	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
2 4500	77.1	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
2 4000	80.2	80.5	80.6	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
2 3500	81.7	82.0	82.2	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
2 3000	83.0	83.5	83.7	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
2 2500	84.7	84.6	84.7	84.8	84.9	84.9	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
2 2000	86.0	87.0	87.2	87.4	87.6	87.6	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
2 1800	86.2	87.2	87.4	87.6	87.8	87.8	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
2 1500	87.6	89.1	89.7	89.9	90.3	90.3	90.4	90.5	90.5	90.8	90.8	90.8	90.8	90.8	90.8	90.8
2 1200	88.8	90.6	91.3	91.5	91.9	91.9	92.0	92.2	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4
2 1000	90.5	93.1	94.1	94.3	94.7	94.7	95.1	95.2	95.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5
2 900	91.0	93.5	94.6	94.8	95.4	95.4	95.7	95.8	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
2 800	91.0	93.5	94.6	94.8	95.5	95.5	95.8	95.9	95.9	96.2	96.2	96.2	96.2	96.2	96.2	96.2
2 700	91.1	94.1	95.3	95.5	96.2	96.2	96.6	96.7	96.7	97.2	97.2	97.2	97.2	97.2	97.2	97.2
2 600	91.5	94.6	95.8	96.0	97.1	97.1	97.4	97.5	97.5	98.1	98.1	98.1	98.1	98.1	98.1	98.1
2 500	91.5	95.1	96.3	96.7	97.8	98.0	98.3	98.6	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1
2 400	91.6	95.2	96.5	96.8	98.1	98.2	98.5	98.8	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4
2 300	91.6	95.3	96.6	97.0	98.4	98.5	98.8	99.1	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7
2 200	91.6	95.4	96.8	97.2	98.6	98.7	99.0	99.4	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9
2 100	91.6	95.4	96.8	97.2	98.6	98.7	99.0	99.4	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9
2 0	91.6	95.4	96.8	97.2	98.6	98.7	99.0	99.4	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 121-84 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-83

MAY

STATION

STATION NAME

YEARS

MOON

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO. CEILING	47.7	40.0	47.7	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥ 20000	57.2	50.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 18000	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
≥ 16000	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
≥ 14000	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
≥ 12000	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
≥ 10000	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 9000	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 8000	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
≥ 7000	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
≥ 6000	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 5000	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
≥ 4500	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
≥ 4000	80.9	80.9	80.9	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
≥ 3500	83.7	83.7	83.7	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 3000	84.9	85.2	85.2	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 2500	86.9	87.2	87.2	87.4	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 2000	89.5	89.8	89.8	90.0	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 1800	89.8	90.1	90.2	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 1500	91.7	92.3	92.5	93.0	93.3	93.4	93.4	93.4	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 1200	92.7	93.5	94.1	94.5	94.8	94.9	94.9	94.9	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1000	93.4	94.7	95.4	96.0	96.5	96.6	96.6	96.6	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 900	93.4	94.7	95.4	96.0	96.5	96.6	96.6	96.6	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 800	93.4	94.8	95.5	96.1	96.6	96.8	96.8	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 700	93.4	95.2	96.0	96.7	97.1	97.3	97.4	97.4	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 600	93.5	95.5	96.3	97.3	97.7	98.1	98.2	98.3	98.5	98.8	98.9	98.9	98.9	98.9	98.9	98.9
≥ 500	93.8	95.7	96.6	97.5	98.1	98.4	98.7	98.8	99.1	99.5	99.6	99.6	99.6	99.6	99.6	99.6
≥ 400	93.8	95.9	96.8	97.7	98.2	98.6	98.9	99.1	99.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300	93.9	96.0	96.9	97.8	98.3	98.7	99.0	99.1	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	93.9	96.0	96.9	97.8	98.3	98.7	99.0	99.1	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	93.9	96.0	96.9	97.8	98.3	98.7	99.0	99.1	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	93.9	96.0	96.9	97.8	98.3	98.7	99.0	99.1	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AFR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

707755

MALMSTROM AFB MT

74-87

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO. OF OBS.	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
≥ 2000	47.3	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
≥ 1800	47.6	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 1600	47.6	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 1400	48.2	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
≥ 1200	52.7	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
≥ 1000	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 900	60.5	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
≥ 800	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 700	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
≥ 600	64.9	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 500	73.3	73.7	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 450	78.1	78.4	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 400	82.7	83.0	83.5	83.8	83.8	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 350	86.2	86.6	87.1	87.5	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 300	87.7	88.1	88.6	89.0	89.4	89.4	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 250	89.1	89.7	90.4	91.0	91.4	91.4	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 200	90.8	91.8	92.6	93.2	93.7	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 180	91.9	91.9	92.7	93.3	93.8	93.8	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 150	91.8	93.4	94.3	95.1	95.7	95.7	95.8	95.9	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 100	92.2	94.3	95.2	96.1	96.8	96.9	97.0	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 90	92.4	94.7	95.7	96.7	97.3	97.4	97.5	97.6	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 80	92.4	94.7	95.9	96.9	97.5	97.6	97.7	97.8	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 70	92.7	95.2	96.3	97.3	98.0	98.1	98.2	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 60	92.7	95.2	96.6	97.5	98.2	98.3	98.4	98.5	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥ 50	92.7	95.3	96.9	97.8	98.5	98.6	98.7	98.8	99.1	99.4	99.5	99.6	99.7	99.7	99.7	99.7
≥ 40	92.8	95.4	97.0	98.0	98.6	98.7	98.8	98.9	99.2	99.5	99.7	99.9	100.0	100.0	100.0	100.0
≥ 30	92.8	95.4	97.0	98.0	98.6	98.7	98.8	98.9	99.2	99.5	99.7	99.9	100.0	100.0	100.0	100.0
≥ 20	92.8	95.4	97.0	98.0	98.6	98.7	98.8	98.9	99.2	99.5	99.7	99.9	100.0	100.0	100.0	100.0
≥ 10	92.8	95.4	97.0	98.0	98.6	98.7	98.8	98.9	99.2	99.5	99.7	99.9	100.0	100.0	100.0	100.0
≥ 0	92.8	95.4	97.0	98.0	98.6	98.7	98.8	98.9	99.2	99.5	99.7	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 121-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-83

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1970-2000

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥2000	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥1800	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
≥1600	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥1400	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
≥1200	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
≥1000	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
≥800	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
≥600	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
≥400	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥200	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥100	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
≥50	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥25	83.7	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥15	86.8	87.2	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥10	89.7	89.8	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥5	89.9	90.5	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥2	91.1	91.8	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥1	91.3	92.6	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥0.5	91.3	92.8	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥0.25	92.7	93.9	94.6	94.9	95.3	95.3	95.3	95.3	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥0.15	92.6	94.8	95.7	96.1	96.5	96.5	96.5	96.5	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥0.1	93.3	95.8	96.8	97.3	97.6	97.6	97.6	97.6	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥0.05	93.3	95.9	97.7	97.6	98.0	98.0	98.0	98.0	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥0.025	93.3	96.1	97.2	98.0	98.3	98.3	98.3	98.3	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥0.01	93.3	96.2	97.3	98.2	98.5	98.5	98.5	98.5	98.7	98.8	98.9	98.9	98.9	98.9	98.9	98.9
≥0.005	93.3	96.3	97.5	98.5	98.8	98.8	98.8	98.8	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥0.0025	93.3	96.3	97.7	98.7	99.0	99.0	99.0	99.0	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7
≥0.001	93.3	96.3	97.7	98.7	99.0	99.0	99.0	99.0	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7
≥0.0005	93.3	96.3	97.7	98.7	99.0	99.0	99.0	99.0	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7
≥0.00025	93.3	96.3	97.7	98.7	99.0	99.0	99.0	99.0	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7
≥0.0001	93.3	96.3	97.7	98.7	99.0	99.0	99.0	99.0	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 12-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300
HOURS

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	51.1	51.5	51.6	51.6	51.6	51.6	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥20000	57.3	57.8	58.0	58.0	58.0	58.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥18000	57.5	58.1	58.2	58.2	58.2	58.2	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
≥16000	57.5	58.1	58.2	58.2	58.2	58.2	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
≥14000	57.7	58.3	58.4	58.4	58.4	58.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
≥12000	62.6	63.1	63.2	63.2	63.2	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥10000	69.4	69.9	70.0	70.0	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥9000	70.4	71.0	71.1	71.1	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥8000	73.5	74.1	74.2	74.2	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥7000	74.2	74.7	74.8	74.8	74.8	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥6000	75.6	76.1	76.2	76.2	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥5000	81.5	82.0	82.2	82.2	82.2	82.2	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
≥4500	82.7	83.4	83.7	83.7	83.7	83.7	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥4000	86.1	87.0	87.3	87.3	87.3	87.3	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥3500	87.4	88.6	89.1	89.1	89.1	89.1	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥3000	88.0	89.7	90.4	90.4	90.4	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥2500	88.5	90.2	91.2	91.2	91.2	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥2000	89.7	90.8	91.9	91.9	91.9	91.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥1800	89.2	91.3	92.5	92.5	92.5	92.5	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥1500	90.0	92.2	93.3	93.5	93.5	93.5	93.8	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥1200	90.2	92.7	94.4	94.8	94.8	94.8	95.1	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥1000	90.6	93.5	95.5	95.9	95.9	95.9	96.1	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥900	90.9	93.9	95.8	96.5	96.6	96.6	96.8	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥800	90.9	94.1	96.7	96.8	96.9	96.9	97.1	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥700	91.0	94.4	96.3	97.1	97.2	97.2	97.4	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥600	91.2	94.6	96.8	97.5	97.6	97.6	97.8	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥500	91.2	94.7	97.3	98.1	98.3	98.3	98.5	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥400	91.2	94.8	97.5	98.3	98.5	98.5	98.7	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥300	91.2	94.8	97.5	98.3	98.5	98.5	98.7	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥200	91.2	94.8	97.5	98.3	98.5	98.5	98.7	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥100	91.2	94.8	97.5	98.3	98.5	98.5	98.7	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥0	91.2	94.8	97.5	98.3	98.5	98.5	98.7	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-83

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥10000	45.6	45.9	45.9	45.9	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
2 20000	54.7	54.1	54.2	54.2	54.2	54.2	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
2 18000	54.2	54.4	54.4	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
2 16000	54.3	54.5	54.5	54.6	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
2 14000	55.7	55.1	55.2	55.2	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
2 12000	58.7	58.9	59.7	59.0	59.0	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
2 10000	65.5	65.7	65.8	65.8	65.8	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
2 9000	66.7	66.9	67.7	67.0	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
2 8000	69.7	69.9	70.7	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
2 7000	70.5	70.7	70.8	70.8	70.8	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
2 6000	71.9	72.1	72.2	72.2	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
2 5000	76.9	77.2	77.3	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
2 4500	79.5	79.9	80.1	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
2 4000	82.8	83.3	83.5	83.6	83.6	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
2 3500	84.9	85.6	85.9	86.0	86.1	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
2 3000	85.9	86.9	87.3	87.5	87.6	87.6	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
2 2500	86.9	87.9	88.5	88.6	88.8	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
2 2000	88.7	89.3	90.7	90.2	90.3	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
2 1800	88.2	89.7	90.4	90.6	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
2 1600	89.2	90.9	91.7	92.1	92.4	92.4	92.5	92.5	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7
2 1400	89.8	91.9	93.1	93.5	93.8	93.9	94.0	94.0	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2
2 1200	90.5	92.9	94.3	94.8	95.2	95.2	95.3	95.4	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6
2 1000	97.6	93.1	94.6	95.2	95.6	95.6	95.8	95.8	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1
2 800	90.7	93.3	94.9	95.4	95.9	96.0	96.1	96.2	96.3	96.4	96.5	96.5	96.5	96.5	96.5	96.5
2 700	90.9	93.7	95.3	95.9	96.5	96.6	96.7	96.8	96.9	97.1	97.2	97.2	97.2	97.2	97.2	97.2
2 600	91.2	94.2	95.9	96.7	97.3	97.5	97.7	97.8	97.9	98.2	98.2	98.3	98.3	98.3	98.3	98.3
2 500	91.3	94.3	96.3	97.1	97.8	98.0	98.3	98.5	98.7	98.9	99.0	99.0	99.0	99.1	99.1	99.1
2 400	91.3	94.4	96.4	97.2	98.0	98.2	98.5	98.8	98.9	99.2	99.3	99.3	99.3	99.4	99.4	99.4
2 300	91.3	94.4	96.5	97.3	98.1	98.3	98.6	99.0	99.1	99.4	99.5	99.5	99.6	99.6	99.6	99.6
2 200	91.4	94.6	96.6	97.5	98.3	98.6	98.9	99.2	99.4	99.6	99.8	99.9	99.9	99.9	100.0	100.0
2 100	91.4	94.6	96.6	97.5	98.3	98.6	98.9	99.2	99.4	99.7	99.8	99.9	99.9	100.0	100.0	100.0
2 00	91.4	94.6	96.6	97.5	98.3	98.6	98.9	99.2	99.4	99.7	99.8	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 7990

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

77755 MALMSTROM AFB MT

74-87

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1228-1228

		VISIBILITY - STATUTE MILES															
		20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1	1000	61.3	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
2	900	67.4	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
3	800	67.4	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
4	700	67.4	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
5	600	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
6	500	71.7	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
7	400	77.5	78.7	79.2	78.0	78.0	78.7	78.7	78.0	78.0	78.0	79.0	79.0	79.0	79.0	78.0	78.0
8	300	78.8	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
9	200	81.8	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
10	100	81.8	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
11	000	82.4	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
12	000	86.8	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
13	000	88.8	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
14	000	92.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
15	000	93.5	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
16	000	93.9	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
17	000	94.5	96.6	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
18	000	94.7	96.8	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
19	000	95.0	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
20	000	95.0	97.1	97.4	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
21	000	95.3	97.6	97.9	97.9	98.7	98.7	98.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
22	000	95.8	98.7	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
23	000	95.9	98.1	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
24	000	96.1	98.4	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
25	000	96.1	98.4	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
26	000	96.1	98.4	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
27	000	96.2	98.7	99.3	99.3	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
28	000	96.2	98.7	99.3	99.3	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
29	000	96.2	98.9	99.6	99.6	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
30	000	96.2	98.9	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
31	000	96.2	98.9	99.7	99.7	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
32	000	96.2	98.9	99.7	99.7	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 899

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-83

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

7300-0500

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1	≥ 0
≥ 7000	55.4	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
≥ 6000	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 5000	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 4000	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
≥ 3000	64.8	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
≥ 2000	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 1000	75.9	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 800	79.9	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 700	80.3	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
≥ 600	81.7	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥ 500	85.6	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 450	87.9	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 400	91.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 350	91.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 300	93.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 250	94.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 200	94.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 180	94.9	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 150	95.3	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 120	95.3	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 100	95.7	97.3	97.3	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 90	95.8	97.7	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 80	95.9	98.0	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 70	96.1	98.2	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 60	96.3	98.7	98.9	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 50	96.3	98.8	99.1	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 40	96.4	98.9	99.2	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 30	96.4	99.2	99.6	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 20	96.4	99.2	99.6	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 10	96.4	99.2	99.6	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	96.4	99.2	99.6	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 970

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

HALMSTROM AFB MT

74-83

JUN

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

7600-7800

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ 0
NO CEILING	56.3	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
≥ 20000	63.4	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.9
≥ 18000	63.6	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	64.0
≥ 16000	63.6	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	64.0
≥ 14000	64.1	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.6
≥ 12000	67.2	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.7
≥ 10000	73.3	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.9
≥ 9000	75.2	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.9
≥ 8000	80.3	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.7
≥ 7000	87.2	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.9
≥ 6000	81.4	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.4
≥ 5000	85.3	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	86.0
≥ 4500	87.0	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.7
≥ 4000	89.9	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.8
≥ 3500	91.9	91.8	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	92.0
≥ 3000	91.6	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.8
≥ 2500	92.3	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.6
≥ 2000	93.0	94.0	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.4
≥ 1800	93.2	94.2	94.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.8
≥ 1500	94.7	95.0	95.3	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.8
≥ 1200	94.2	95.2	95.6	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	96.0
≥ 1000	94.4	95.4	96.7	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.7
≥ 900	94.8	95.9	96.4	96.9	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.2
≥ 800	94.8	95.9	96.4	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.2
≥ 700	95.1	96.2	97.4	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	98.1
≥ 600	95.3	96.7	97.7	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.8
≥ 500	95.4	97.0	98.1	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 400	95.7	97.2	98.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.6
≥ 300	95.7	97.3	98.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9
≥ 200	95.7	97.3	98.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9
≥ 100	95.7	97.3	98.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9
≥ 0	95.7	97.3	98.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9

TOTAL NUMBER OF OBSERVATIONS 970

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

77755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

JUN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1900-1100
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO. CEILING	57.4	57.4	57.4	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
≥2000	65.7	65.7	65.7	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥1800	65.3	65.3	65.3	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
≥1600	65.6	65.6	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
≥1400	67.7	67.7	67.7	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥1200	69.3	69.3	69.3	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥1000	73.7	73.7	73.7	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥900	74.3	74.3	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥800	77.0	77.0	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥700	77.9	77.9	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥600	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥500	83.2	83.2	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥450	85.7	85.7	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥400	89.7	89.7	89.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥350	91.1	91.4	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥300	92.3	92.8	92.9	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥250	93.4	94.7	94.2	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥200	94.7	94.7	94.9	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥180	94.3	95.0	95.2	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥150	95.7	95.7	95.9	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥100	96.1	96.9	97.7	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥80	96.7	97.4	97.9	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥60	96.7	97.4	98.7	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥40	97.0	97.8	98.3	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥30	97.1	98.7	98.6	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥20	97.2	98.1	98.7	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥10	97.2	98.2	98.8	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥5	97.2	98.2	98.9	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥3	97.2	98.3	99.0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥2	97.2	98.3	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥1	97.2	98.3	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥0	97.2	98.3	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOPAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-87

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1270-1472

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
≥10000	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
2 10000	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
2 8000	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
2 6000	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
2 4000	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
2 2000	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
2 1000	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
2 900	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
2 800	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
2 700	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
2 600	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
2 500	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
2 4500	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
2 4000	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
2 3500	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
2 3000	95.9	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
2 2500	97.0	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
2 2000	97.6	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
2 1900	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
2 1800	97.9	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
2 200	98.9	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
2 1000	99.1	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
2 900	99.1	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
2 800	99.1	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
2 700	99.1	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
2 600	99.1	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
2 500	99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
2 400	99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
2 300	99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
2 200	99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
2 100	99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
2 100	99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 990

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-87

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .03	≥ .01
NO FEE NO	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
2 2000	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
2 1800	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
2 1600	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
2 1400	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
2 1200	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
2 1000	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
2 900	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
2 800	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
2 700	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
2 600	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
2 500	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.4	86.4	86.4
2 450	90.2	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.4	90.4	90.4
2 400	94.4	94.4	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.8	94.8	94.8
2 350	95.8	95.9	96.7	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.2	96.2	96.2
2 300	97.6	97.7	97.9	97.9	98.7	98.7	98.7	98.0	98.0	98.0	98.0	98.0	98.0	98.1	98.1	98.1
2 250	97.9	98.7	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.4	98.4	98.4
2 200	98.1	98.2	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.7	98.7	98.7
2 180	98.1	98.2	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.7	98.7	98.7
2 150	98.4	98.7	99.7	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3
2 120	98.9	99.2	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9
2 100	98.9	99.2	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9
2 900	98.9	99.2	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9
2 800	98.9	99.2	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9
2 700	98.9	99.2	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9
2 600	98.9	99.2	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9
2 500	99.0	99.3	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
2 400	99.0	99.3	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
2 300	99.0	99.3	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
2 200	99.0	99.3	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
2 100	99.0	99.3	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
2 0	99.0	99.3	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC 1004 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ATP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

77755 MALMSTROM AFB MT

74-83

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1970-2000

ELEVATION FEET	VISIBILITY STATUTE MILES															
	20	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
10000	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
9000	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
8000	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
7000	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
6000	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
5000	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
4000	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
3000	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
2000	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
1000	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
900	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
800	88.7	88.8	88.8	88.9	89.7	89.7	89.7	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
700	92.3	92.6	92.7	92.8	93.1	93.1	93.1	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
600	94.7	94.9	95.7	95.1	95.4	95.4	95.4	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
500	94.9	95.1	95.3	95.4	95.8	95.8	95.8	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
400	95.7	96.7	96.3	96.4	96.9	96.9	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
300	96.8	97.1	97.4	97.6	98.4	98.0	98.4	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
200	97.1	97.4	97.8	97.9	98.3	98.3	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
100	97.1	97.4	97.8	97.9	98.3	98.3	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
0	97.2	97.6	97.9	98.0	98.6	98.6	98.6	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
9000	97.3	97.8	98.1	98.4	99.1	99.1	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
8000	97.4	98.0	98.4	98.8	99.4	99.4	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
7000	97.4	98.0	98.4	98.9	99.6	99.6	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
6000	97.4	98.0	98.4	98.9	99.6	99.6	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
5000	97.6	98.1	98.6	99.0	99.7	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4000	97.6	98.1	98.6	99.0	99.7	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3000	97.6	98.1	98.6	99.0	99.7	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2000	97.6	98.1	98.6	99.0	99.7	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1000	97.6	98.1	98.6	99.0	99.7	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	97.6	98.1	98.6	99.0	99.7	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC FORM 101-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72755

MALMSTROM AFB MT

74-83

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0100-2300

CEILING FEET	VISIBILITY, STATUTE MILES															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
20000	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
18000	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
16000	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
14000	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
12000	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
10000	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
8000	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
6000	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
4000	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
2000	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
1000	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
800	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
600	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
400	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
200	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
100	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
50	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
25	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
10	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
2	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
1	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7

TOTAL NUMBER OF OBSERVATIONS 970

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

707755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

JUN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL
PERIOD

CEILING FEET	VISIBILITY, STATUTE MILES															
	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1000	52.6	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
900	62.0	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.2
800	62.2	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
700	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
600	63.5	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
500	66.9	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
400	73.3	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
300	74.5	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
200	77.9	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
100	78.7	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
900	80.1	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
800	85.9	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
700	88.6	89.1	89.1	89.1	89.1	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
600	92.0	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.8	92.8	92.8
500	93.3	93.9	94.0	94.1	94.1	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
400	94.4	95.2	95.4	95.4	95.5	95.5	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
300	95.3	96.2	96.4	96.4	96.5	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
200	95.7	96.6	96.8	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
100	95.8	96.8	96.9	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
900	96.1	97.2	97.4	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
800	96.5	97.6	97.9	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.3	98.3	98.3
700	96.8	97.9	98.3	98.4	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
600	96.9	98.1	98.4	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.9	98.9	98.9
500	97.0	98.2	98.6	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1
400	97.1	98.3	98.8	99.1	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
300	97.2	98.5	99.0	99.2	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
200	97.2	98.6	99.1	99.4	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
100	97.2	98.6	99.2	99.5	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
900	97.2	98.7	99.3	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
800	97.2	98.7	99.3	99.7	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
700	97.2	98.7	99.3	99.7	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
600	97.2	98.7	99.3	99.7	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 7199

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

7-7755

HALMSTROM AFB MT

74-83

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1970-1970

		VISIBILITY - STATUTE MILES															
		20	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11
1	1000	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
2	900	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
3	800	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
4	700	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
5	600	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
6	500	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
7	400	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
8	300	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
9	200	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
10	100	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
11	50	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
12	0	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
13	400	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
14	300	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
15	200	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
16	100	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
17	50	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
18	0	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
19	400	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
20	300	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
21	200	98.5	98.8	99.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
22	100	98.7	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
23	50	98.7	99.1	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
24	0	98.7	99.1	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
25	400	98.7	99.1	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
26	300	98.8	99.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
27	200	98.8	99.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
28	100	98.8	99.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
29	50	99.0	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30	0	99.0	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

HALMSTROM AFB MT

74-87

JUL

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	77.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.4	76.5	76.5	76.5	76.5	76.5	76.5
≥ 2000	76.7	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.9	77.0	77.0	77.0	77.0	77.0	77.0
≥ 1800	76.8	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	77.0	77.1	77.1	77.1	77.1	77.1	77.1
≥ 1600	76.8	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	77.0	77.1	77.1	77.1	77.1	77.1	77.1
≥ 1400	77.3	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.5	77.6	77.6	77.6	77.6	77.6	77.6
≥ 1200	87.1	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.3	87.4	87.4	87.4	87.4	87.4	87.4
≥ 1000	86.5	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.7	86.8	86.8	86.8	86.8	86.8	86.8
≥ 900	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.5	87.6	87.6	87.6	87.6	87.6	87.6
≥ 800	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.8	89.9	89.9	89.9	89.9	89.9	89.9
≥ 700	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.3	89.4	89.4	89.4	89.4	89.4	89.4
≥ 600	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.7	89.8	89.8	89.8	89.8	89.8	89.8
≥ 500	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.9	92.0	92.0	92.0	92.0	92.0	92.0
≥ 450	92.9	93.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.3	93.4	93.4	93.4	93.5	93.5	93.5
≥ 400	94.3	94.7	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.2	95.3	95.3	95.3	95.4	95.4	95.4
≥ 350	95.3	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.2	96.3	96.3	96.3	96.5	96.5	96.5
≥ 300	95.6	96.1	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.6	96.7	96.7	96.7	96.8	96.8	96.8
≥ 250	95.7	96.2	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.8	96.9	96.9	96.9	97.0	97.0	97.0
≥ 200	95.9	96.6	96.9	96.9	96.9	96.9	96.9	96.9	96.9	97.0	97.1	97.1	97.1	97.2	97.2	97.2
≥ 180	96.2	96.9	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.3	97.4	97.4	97.4	97.5	97.5	97.5
≥ 160	96.7	97.3	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.7	97.8	97.8	97.8	97.9	97.9	97.9
≥ 140	97.1	97.7	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.5	98.6	98.6	98.6	98.7	98.7	98.7
≥ 120	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.8	98.9	98.9	98.9	99.0	99.0	99.0
≥ 100	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.8	98.9	98.9	98.9	99.0	99.0	99.0
≥ 90	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.8	98.9	98.9	98.9	99.0	99.0	99.0
≥ 80	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.8	98.9	98.9	98.9	99.0	99.0	99.0
≥ 70	97.5	98.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.9	99.0	99.0	99.0	99.1	99.1	99.1
≥ 60	97.5	98.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.9	99.0	99.0	99.0	99.1	99.1	99.1
≥ 50	97.5	98.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.9	99.0	99.0	99.0	99.1	99.1	99.1
≥ 40	97.6	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.2	99.2	99.2	99.3	99.3	99.3
≥ 30	97.6	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.2	99.2	99.2	99.3	99.3	99.3
≥ 20	97.6	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.2	99.2	99.2	99.3	99.3	99.3
≥ 10	97.6	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.2	99.2	99.2	99.3	99.3	99.3
≥ 0	97.6	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.2	99.2	99.2	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-87

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1675-0870

		VISIBILITY - STATUTE MILES															
		30	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1	1000	69.1	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
2	900	75.8	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
3	800	76.2	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
4	700	76.3	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
5	600	77.1	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
6	500	87.9	81.1	81.2	81.2	81.2	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
7	400	85.2	85.4	85.5	85.5	85.5	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
8	300	85.7	85.9	86.0	86.0	86.0	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
9	200	88.4	88.6	88.7	88.7	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
10	100	89.1	89.4	89.5	89.5	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
11	50	90.8	91.0	91.1	91.1	91.1	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
12	0	92.3	92.7	92.8	92.8	92.8	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
13	4500	92.5	93.0	93.1	93.1	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
14	4000	93.4	94.0	94.1	94.1	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
15	3500	94.2	94.7	94.8	94.8	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
16	3000	94.7	95.3	95.4	95.4	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
17	2500	95.2	95.7	95.8	95.8	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
18	2000	95.5	96.0	96.1	96.2	96.3	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
19	1500	95.5	96.0	96.1	96.2	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
20	1000	95.8	96.5	96.6	96.7	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
21	500	96.5	97.2	97.5	98.0	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
22	0	96.8	97.5	97.8	98.3	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
23	4500	96.8	97.6	98.0	98.4	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
24	4000	96.9	97.7	98.1	98.5	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
25	3500	96.9	97.7	98.1	98.5	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
26	3000	97.2	98.1	98.4	98.9	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
27	2500	97.2	98.1	98.4	98.9	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
28	2000	97.2	98.1	98.4	99.0	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
29	1500	97.2	98.1	98.4	99.0	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
30	1000	97.2	98.1	98.4	99.0	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
31	500	97.2	98.1	98.4	99.0	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
32	0	97.2	98.1	98.4	99.0	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 932

USAF ETAC 10-4-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ATP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO. CEILING	71.7	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥ 20000	78.7	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
≥ 18000	79.7	79.7	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 16000	79.7	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 14000	79.9	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 12000	82.4	82.4	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 10000	85.9	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 9000	86.5	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 8000	89.2	89.2	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 7000	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 6000	91.4	90.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 5000	91.5	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 4500	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 4000	94.7	94.7	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 3500	95.1	95.1	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 3000	96.2	96.3	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 2500	96.7	97.2	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 2000	96.7	97.2	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1800	96.9	97.4	97.6	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1500	97.4	98.0	98.7	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1200	97.6	98.2	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1000	97.8	98.4	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 900	97.8	98.4	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 800	98.3	98.9	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	98.3	98.9	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	98.4	99.0	99.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500	98.4	99.0	99.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400	98.5	99.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	98.5	99.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	98.5	99.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	98.5	99.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	98.5	99.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 12-84 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-87

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

ELEVATION FEET		VISIBILITY STATISTICS															
		200	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
10000	10000	68.8	68.8	69.8	68.8	69.8	68.3	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
9000	9000	78.8	78.8	79.8	78.8	79.8	78.8	79.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
8000	8000	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
7000	7000	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
6000	6000	87.2	80.2	80.2	80.2	87.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
5000	5000	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
4000	4000	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
3000	3000	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
2000	2000	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
1000	1000	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
0	0	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
10000	10000	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
9000	9000	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
8000	8000	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
7000	7000	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
6000	6000	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
5000	5000	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
4000	4000	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
3000	3000	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
2000	2000	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
1000	1000	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
0	0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
10000	10000	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
9000	9000	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
8000	8000	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
7000	7000	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
6000	6000	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
5000	5000	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
4000	4000	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
3000	3000	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
2000	2000	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
1000	1000	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
0	0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOPAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-83

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1970-2000

CEILING FEET	VISIBILITY - STATUTE MILES															
	20	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
10000	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
8000	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
6000	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
4000	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
2000	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
1000	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
800	84.4	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
600	84.8	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
400	89.7	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
200	89.2	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
100	91.6	91.0	91.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
80	93.7	94.7	94.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
60	94.8	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
40	97.1	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
20	97.6	98.3	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
10	97.8	98.5	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
8	98.1	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
6	98.3	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
4	98.3	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
2	98.3	99.1	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
1	98.3	99.1	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
0.5	98.4	99.2	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
0.2	98.5	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
0.1	98.6	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
0.05	98.6	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
0.02	98.8	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.01	98.8	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.005	98.8	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.002	98.8	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.001	98.8	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.0005	98.8	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-83

JUL

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2177-2300

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥ 20000	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 18000	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 16000	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥ 14000	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 12000	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
≥ 10000	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 8000	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 6000	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 4000	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 2000	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1000	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 500	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 200	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 100	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 50	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 20	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 10	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 5	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 0.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 0.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0.05	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0.02	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0.01	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0.005	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0.002	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0.001	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0.0005	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0.0002	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0.0001	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0.00005	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0.00002	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0.00001	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-83

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	20	26	25	24	23	22	22	21	21	20	20	19	19	18	18	20
20000	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
18000	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
16000	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
14000	75.7	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
12000	76.5	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
10000	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
8000	85.5	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
6000	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
4000	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
2000	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
1000	91.1	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
500	92.6	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
400	93.8	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
300	95.7	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
200	96.5	96.9	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
100	97.1	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
50	97.3	97.7	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
20	97.5	98.0	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
10	97.6	98.1	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
5	97.8	98.3	98.5	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
2	98.1	98.6	98.9	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
1	98.2	98.7	99.0	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
0.5	98.2	98.7	99.0	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
0.2	98.3	98.8	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
0.1	98.3	98.9	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
0.05	98.3	98.9	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
0.02	98.4	99.1	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
0.01	98.5	99.1	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
0.005	98.5	99.1	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
0.002	98.5	99.1	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
0.001	98.5	99.1	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 7490

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-83

AUG

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0.005
NO CEILING	69.6	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥20000	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥18000	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥16000	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
≥14000	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥12000	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥10000	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥9000	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥8000	85.6	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥7000	86.5	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥6000	87.7	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥5000	91.8	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥4500	93.5	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥4000	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥3500	97.1	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥3000	97.2	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥2500	97.3	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥2000	97.4	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥1800	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥1600	97.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥1400	97.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥1200	98.1	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥1000	98.1	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥900	98.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥800	98.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥700	98.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥600	98.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥500	98.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥400	98.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥300	98.5	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥200	98.5	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥100	98.5	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥0	98.5	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS

930

USAF ETAC

FORM 10-64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-83

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-2500

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.1	≥0.05	≥0.01	≥0.001
≥20000	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.6	71.6	71.6	71.6	71.6	71.6
≥18000	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.6	75.6	75.6	75.6	75.6	75.6
≥16000	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.6	75.6	75.6	75.6	75.6	75.6
≥14000	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.9	75.9	75.9	75.9	75.9	75.9
≥12000	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.5	76.5	76.5	76.5	76.5	76.5
≥10000	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.2	79.2	79.2	79.2	79.2	79.2
≥9000	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.3	84.3	84.3	84.3	84.3	84.3
≥8000	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.8	84.8	84.8	84.8	84.8	84.8
≥7000	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.5	86.5	86.5	86.5	86.5	86.5
≥6000	86.9	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.2	87.2	87.2	87.2	87.2	87.2
≥5000	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.9	88.9	88.9	88.9	88.9	88.9
≥4500	92.6	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	93.0	93.0	93.0	93.0	93.0	93.0
≥4000	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.2	94.2	94.2	94.2	94.2	94.2
≥3500	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.7	95.7	95.7	95.7	95.7	95.7
≥3000	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.2	96.2	96.2	96.2	96.2	96.2
≥2500	96.1	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.7	96.7	96.7	96.7	96.7	96.7
≥2000	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.2	97.2	97.2	97.2	97.2	97.2
≥1800	97.2	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.2	98.2	98.2	98.2	98.2	98.2
≥1600	97.2	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.2	98.2	98.2	98.2	98.2	98.2
≥1400	97.2	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.3	98.3	98.3	98.3	98.3	98.3
≥1200	97.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6
≥1000	97.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6
≥900	97.3	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.7	98.7	98.7	98.7	98.7	98.7
≥800	97.3	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.8	98.8	98.8	98.8	98.8	98.8
≥700	97.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9
≥600	97.3	98.3	98.7	98.8	98.8	98.9	98.9	98.9	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1
≥500	97.3	98.5	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5
≥400	97.3	98.6	99.0	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6
≥300	97.3	98.6	99.0	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6
≥200	97.3	98.6	99.0	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8
≥100	97.3	98.6	99.0	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8
≥50	97.3	98.6	99.0	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 932

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MAHMSTROM AFB MT

74-83

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

7400-0890

CEILING FEET	VISIBILITY - STATUTE MILES															
	20	20	25	24	23	22	21	20	20	21	21	24	24	24	25	26
1000	63.8	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
900	68.0	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
800	68.1	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
700	68.7	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
600	69.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
500	74.4	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
400	80.8	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
300	81.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
200	84.5	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
100	85.8	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
900	88.7	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
800	91.2	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
700	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
600	93.4	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
500	94.4	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
400	95.4	95.8	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
300	96.1	96.6	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
200	96.6	97.2	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
100	96.6	97.2	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
900	96.6	97.2	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
800	96.9	97.5	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
700	97.3	98.0	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
600	97.3	98.0	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
500	97.5	98.3	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
400	97.6	98.4	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
300	97.6	98.6	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
200	97.6	98.6	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
100	97.6	98.6	99.4	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
900	97.6	98.6	99.4	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 101-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-83

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

920-1122

ELEVATION FEET	VISIBILITY - STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
10000	64.1	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
9000	70.1	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
8000	70.2	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
7000	70.4	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
6000	71.8	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
5000	75.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
4000	81.3	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
3000	82.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
2000	85.1	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
1000	86.5	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
500	87.3	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
0	89.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
4500	90.2	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
4000	92.0	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
3500	92.9	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
3000	93.8	94.1	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
2500	94.2	94.7	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
2000	95.3	95.8	96.0	96.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
1500	95.8	96.3	96.6	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
1000	96.5	97.0	97.3	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
500	97.1	97.8	98.2	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
0	97.1	98.0	98.3	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
4500	97.4	98.3	98.6	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
4000	97.7	98.7	99.1	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
3500	97.8	98.8	99.1	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
3000	97.8	98.8	99.1	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
2500	97.8	98.8	99.1	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
2000	97.8	98.8	99.1	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
1500	97.8	98.8	99.1	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
1000	97.8	98.8	99.1	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
500	97.8	98.8	99.1	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
0	97.8	98.8	99.1	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

77755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEAR

AUG
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1210-1400
OCCURRENCE

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥1/2	≥1/4	≥1/8	≥1/16	≥1/32	≥1/64	≥1/128	≥1/256	≥1/512
≥10000	67.7	60.3	67.3	67.3	67.3	60.3	67.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
2 20000	67.8	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
2 18000	68.0	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
2 16000	68.0	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
2 14000	70.0	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
2 12000	73.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
2 10000	78.6	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
2 9000	80.2	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
2 8000	82.5	82.8	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
2 7000	82.8	83.1	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
2 6000	83.9	84.2	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
2 5000	86.9	87.2	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
2 4500	89.1	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
2 4000	92.6	92.9	92.9	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
2 3500	93.4	93.8	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
2 3000	94.6	94.9	95.1	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
2 2500	95.3	95.6	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
2 2000	95.8	96.2	96.3	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
2 1800	96.1	96.6	96.7	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
2 1600	96.5	97.0	97.2	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
2 1400	96.6	97.4	97.6	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
2 1200	96.8	97.7	98.0	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
2 1000	96.8	97.7	98.0	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
2 800	97.0	98.1	98.4	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
2 700	97.3	98.4	98.7	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
2 600	97.3	98.4	98.7	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
2 500	97.3	98.4	98.7	99.4	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
2 400	97.3	98.4	98.7	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
2 300	97.3	98.5	98.8	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
2 200	97.3	98.5	98.8	99.5	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 100	97.3	98.5	98.8	99.5	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	97.3	98.5	98.8	99.5	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-87

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
≥20000	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥18000	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
≥16000	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥14000	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥12000	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥10000	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥9000	80.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥8000	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥7000	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥6000	84.1	84.1	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥5000	85.4	85.4	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥4500	91.1	91.2	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥4000	93.4	93.5	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥3500	94.7	94.8	95.1	95.2	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥3000	95.9	96.0	96.2	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥2500	96.2	96.5	96.7	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥2000	96.9	97.2	97.4	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥1800	97.2	97.5	97.7	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥1600	97.3	97.8	98.1	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥1400	97.5	98.2	98.4	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥1200	97.5	98.3	98.5	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥1000	97.5	98.3	98.6	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥900	97.7	98.5	98.8	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥800	97.7	98.6	98.9	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥700	97.7	98.6	98.9	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥600	97.7	98.6	98.9	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥500	97.8	98.7	99.0	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥400	97.8	98.7	99.0	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥300	97.8	98.7	99.0	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥200	97.8	98.7	99.0	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥100	97.8	98.7	99.0	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 1700 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEAR

AUG
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1970-2000
PERIOD

CEILING FEET		VISIBILITY, STATUTE MILES															
		≥10	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥10000	55.1	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
2 20000	65.9	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
2 18000	66.5	66.6	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
2 16000	67.2	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
2 14000	67.8	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
2 12000	72.8	72.9	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
2 10000	81.1	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
2 9000	81.7	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
2 8000	84.4	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
2 7000	85.3	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
2 6000	87.6	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
2 5000	92.9	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
2 4500	93.4	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
2 4000	95.8	96.2	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
2 3500	97.1	97.5	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
2 3000	97.3	97.7	98.0	98.2	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
2 2500	97.8	98.3	98.5	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
2 2000	98.0	98.4	98.6	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
2 1500	98.3	98.7	98.9	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
2 1000	98.4	98.8	99.0	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
2 900	98.4	98.8	99.0	99.2	99.2	99.2	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
2 800	98.4	98.8	99.0	99.2	99.2	99.2	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
2 700	98.4	98.8	99.0	99.5	99.6	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 600	98.4	98.8	99.0	99.5	99.6	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 500	98.4	98.8	99.0	99.5	99.6	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 400	98.4	98.8	99.0	99.5	99.6	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 300	98.4	98.8	99.0	99.5	99.6	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 200	98.4	98.8	99.0	99.5	99.6	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 100	98.4	98.8	99.0	99.5	99.6	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 0	98.4	98.8	99.0	99.5	99.6	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-87

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥10000	62.8	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
≥8000	69.7	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥6000	70.2	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
≥4000	71.2	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥2000	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
≥1000	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥900	82.2	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
≥800	84.7	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥700	85.5	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥600	87.1	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥500	91.1	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥450	92.5	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥400	94.5	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥350	95.5	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥300	96.0	96.3	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥250	96.5	96.9	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥200	96.9	97.4	97.6	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥180	97.0	97.6	97.8	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥150	97.3	98.0	98.2	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥120	97.5	98.2	98.5	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥100	97.6	98.4	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥90	97.6	98.4	98.7	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥80	97.7	98.5	98.8	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥70	97.8	98.6	99.0	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥60	97.8	98.7	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥50	97.8	98.8	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥40	97.9	98.8	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥30	97.9	98.9	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥20	97.9	98.9	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥10	97.9	98.9	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 7440

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

707755

MALMSTROM AFB MT

74-87

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0000

CEILING FEET	VISIBILITY - STATUTE MILES																			
	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
10000	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
8000	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
6000	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
4000	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
2000	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
1000	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
800	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
600	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
400	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
200	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
100	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
50	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
45	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
40	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
35	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
30	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
25	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
20	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
15	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
10	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
5	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
90	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
80	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
70	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
60	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
50	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
40	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
30	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
20	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
10	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-37

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0322-0500

CEILING FEET	VISIBILITY - STATUTE MILES															
	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
1000	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
900	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
800	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
700	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
600	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
500	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
400	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
300	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
200	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
100	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
0	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
900	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
800	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
700	91.4	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
600	92.3	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
500	92.4	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
400	92.9	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
300	93.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
200	93.6	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
100	94.7	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
0	94.8	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
900	94.9	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
800	95.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
700	95.1	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
600	95.3	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
500	95.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
400	95.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
300	95.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
200	95.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
100	95.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
0	95.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4

TOTAL NUMBER OF OBSERVATIONS 970

USAF ETAC D-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-97

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1600-0800

CEILING FEET		VISIBILITY STATUTE MILES															
		200	26	24	24	24	24	24	24	24	24	24	24	24	24	24	24
1	1000	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.7	61.7	61.7	61.7
2	900	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.2	67.2	67.2	67.2
3	800	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.3	67.3	67.3	67.3
4	700	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.4	67.4	67.4	67.4
5	600	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.3	68.3	68.3	68.3
6	500	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.8	72.8	72.8	72.8
7	400	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.7	77.7	77.7	77.7
8	300	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.4	79.4	79.4	79.4
9	200	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.7	82.7	82.7	82.7
10	100	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.4	83.4	83.4	83.4
11	50	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.6	84.6	84.6	84.6
12	0	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	88.0	88.0	88.0	88.0
13	1000	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.2	89.2	89.2	89.2
14	900	90.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.6	90.6	90.6	90.6
15	800	91.2	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	92.0	92.0	92.0	92.0
16	700	91.6	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.6	92.6	92.6	92.6
17	600	92.4	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.6	93.6	93.6	93.6
18	500	93.2	94.7	94.9	95.0	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.4	95.4	95.4	95.4
19	400	93.6	95.1	95.4	95.6	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	96.0	96.0	96.0	96.0
20	300	94.2	95.9	96.2	96.3	96.4	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.9	96.9	96.9	96.9
21	200	94.3	96.0	96.6	96.8	96.9	97.0	97.1	97.1	97.2	97.2	97.2	97.2	97.4	97.4	97.4	97.4
22	100	94.4	96.1	96.8	97.2	97.3	97.4	97.6	97.6	97.7	97.7	97.7	97.7	97.9	97.9	97.9	97.9
23	50	94.6	96.3	97.0	97.4	97.6	97.7	97.8	97.8	97.9	97.9	97.9	97.9	98.1	98.1	98.1	98.1
24	0	94.6	96.3	97.0	97.4	97.6	97.7	97.9	98.0	98.1	98.1	98.1	98.1	98.3	98.3	98.3	98.3
25	1000	94.6	96.8	97.4	97.9	98.0	98.1	98.3	98.4	98.6	98.6	98.6	98.6	98.8	98.8	98.8	98.8
26	900	94.6	96.9	97.6	98.0	98.1	98.2	98.4	98.6	98.7	98.7	98.7	98.7	98.9	98.9	98.9	98.9
27	800	94.7	97.0	97.7	98.1	98.2	98.3	98.6	98.7	98.8	98.8	98.8	98.8	99.0	99.0	99.0	99.0
28	700	94.8	97.1	97.8	98.4	98.6	98.7	98.9	99.0	99.1	99.2	99.2	99.2	99.4	99.4	99.4	99.4
29	600	94.8	97.1	97.8	98.4	98.6	98.7	98.9	99.0	99.1	99.2	99.2	99.2	99.4	99.4	99.4	99.4
30	500	94.8	97.1	97.8	98.4	98.6	98.7	98.9	99.0	99.1	99.2	99.2	99.2	99.4	99.4	99.4	99.4
31	400	94.8	97.1	97.8	98.4	98.6	98.7	98.9	99.0	99.1	99.2	99.2	99.2	99.4	99.4	99.4	99.4
32	300	94.8	97.1	97.8	98.4	98.6	98.7	98.9	99.0	99.1	99.2	99.2	99.2	99.4	99.4	99.4	99.4
33	200	94.8	97.1	97.8	98.4	98.6	98.7	98.9	99.0	99.1	99.2	99.2	99.2	99.4	99.4	99.4	99.4
34	100	94.8	97.1	97.8	98.4	98.6	98.7	98.9	99.0	99.1	99.2	99.2	99.2	99.4	99.4	99.4	99.4
35	0	94.8	97.1	97.8	98.4	98.6	98.7	98.9	99.0	99.1	99.2	99.2	99.2	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFD WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

7-7755
STATION

MALMSTROM AFB MT

STATION NAME

74-87

YEAR

SEP

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-1100

CEILING FEET		VISIBILITY - STATUTE MILES															
		210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
21000	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
20000	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
18000	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
16000	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
14000	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
12000	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
10000	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
8000	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
6000	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
4000	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
2000	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
1000	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
800	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
600	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
400	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
200	92.2	92.2	92.3	92.4	92.6	92.6	92.6	92.7	92.7	92.8	92.8	92.8	92.9	92.9	92.9	92.9	92.9
100	93.1	93.2	93.3	93.7	93.8	93.8	93.8	93.9	93.9	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1
80	93.8	94.1	94.2	94.6	94.8	94.8	94.8	94.9	94.9	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1
60	94.1	94.4	94.6	94.9	95.1	95.1	95.1	95.2	95.2	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4
40	95.3	96.0	96.1	96.4	96.9	96.9	96.9	97.0	97.0	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2
20	95.2	96.4	96.6	97.0	97.4	97.4	97.4	97.6	97.6	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8
10	95.6	97.0	97.1	97.7	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4
8	95.7	97.3	97.4	98.0	98.4	98.4	98.4	98.6	98.6	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8
6	95.8	97.4	97.6	98.1	98.6	98.6	98.6	98.7	98.7	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9
4	95.8	97.4	97.6	98.1	98.6	98.6	98.6	98.7	98.7	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9
2	95.8	97.4	97.6	98.1	98.6	98.6	98.6	98.7	98.7	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9
1	95.9	97.6	97.7	98.2	98.7	98.7	98.7	98.9	98.9	99.0	99.1	99.2	99.3	99.3	99.3	99.3	99.3
0	96.0	97.8	97.9	98.4	98.9	98.9	98.9	99.0	99.0	99.1	99.1	99.2	99.3	99.3	99.3	99.3	99.3
0	96.0	97.9	98.0	98.6	99.0	99.0	99.0	99.1	99.1	99.2	99.2	99.3	99.4	99.4	99.4	99.4	99.4
0	96.0	97.9	98.0	98.6	99.0	99.0	99.0	99.1	99.1	99.2	99.2	99.3	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC FORM 12-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

707755
STATION

MALMSTROM AFB MT

STATION NAME

74-83

YEAR

SEP

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET		VISIBILITY - STATUTE MILES															
		210	20	25	24	23	22	22	21	21	21	21	21	21	21	21	21
1	10000	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
2	8000	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
3	6000	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
4	4000	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
5	2000	77.7	70.7	77.7	70.7	77.7	70.7	77.7	70.7	77.7	70.7	77.7	70.7	77.7	70.7	77.7	70.7
6	1000	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
7	800	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
8	600	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
9	400	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
10	200	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
11	100	85.0	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
12	80	97.6	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
13	60	89.2	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
14	40	90.8	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
15	20	91.8	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
16	10	92.2	92.8	92.9	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
17	5	94.7	94.7	94.8	94.9	94.9	94.9	94.9	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1
18	2	95.1	95.8	96.0	96.3	96.3	96.6	96.6	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8
19	1	95.1	95.8	96.0	96.3	96.3	96.6	96.6	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8
20	0	95.4	96.1	96.3	96.7	96.7	96.9	96.9	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1
21	0	96.1	96.8	97.7	97.3	97.3	97.7	97.7	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9
22	0	96.3	97.4	97.7	98.1	98.2	98.6	98.6	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8
23	0	96.9	98.0	98.2	98.7	98.8	99.1	99.1	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
24	0	97.2	98.3	98.6	99.0	99.1	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
25	0	97.2	98.4	98.7	99.1	99.2	99.6	99.6	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
26	0	97.3	98.6	98.9	99.3	99.4	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
27	0	97.3	98.6	98.9	99.3	99.4	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
28	0	97.3	98.6	98.9	99.3	99.4	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
29	0	97.3	98.6	98.9	99.3	99.4	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 920

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-83

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
≥20000	58.7	58.0	58.7	58.0	58.0	58.7	58.7	58.0	58.0	58.0	58.7	58.0	58.0	58.7	58.7	58.7
≥18000	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
≥16000	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
≥14000	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥12000	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥10000	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
≥8000	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥6000	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥4000	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥2000	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
≥1000	85.1	85.1	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥500	88.6	88.6	88.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥200	90.3	90.3	90.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥100	92.2	92.2	92.2	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥50	93.2	93.2	93.2	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥20	93.9	93.9	93.9	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥10	95.8	95.8	95.8	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥5	96.2	96.2	96.2	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥2	96.6	96.6	96.6	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥1	97.3	97.3	97.3	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥0.5	97.6	97.6	97.6	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥0.2	98.2	98.2	98.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥0.1	98.4	98.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥0.05	98.4	98.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥0.02	98.4	98.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥0.01	98.4	98.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥0.005	98.4	98.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥0.002	98.4	98.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥0.001	98.4	98.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥0.0005	98.4	98.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥0.0002	98.4	98.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥0.0001	98.4	98.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEAR

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1972-2000
PERIOD

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0.005
NO CEILING	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥2000	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥1800	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
≥1600	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
≥1400	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥1200	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥1000	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥900	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥800	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥700	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥600	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥500	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥450	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥400	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥350	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥300	93.4	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥250	95.0	95.2	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥200	95.8	96.3	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥180	95.8	96.3	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥160	96.6	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥140	97.1	97.7	97.9	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥120	97.1	97.8	98.2	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥100	97.4	98.3	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥80	97.6	98.4	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥70	97.7	98.6	99.2	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥60	97.7	98.6	99.2	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥50	97.7	98.6	99.2	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥40	97.7	98.6	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥30	97.7	98.6	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥20	97.7	98.6	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥10	97.7	98.6	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 970

USAF ETAC FORM 8-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-87

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300

		VISIBILITY STATISTICS															
		20	20	25	24	24	22	21	2	24	21	24	24	2	250	24	24
1	600	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
2	500	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
3	400	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
4	300	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
5	200	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
6	100	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
7	50	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
8	30	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
9	20	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
10	10	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
11	5	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
12	2	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
13	1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
14	0	91.1	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
15	0	92.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
16	0	92.9	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
17	0	93.8	94.4	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
18	0	95.2	95.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
19	0	95.4	96.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
20	0	95.7	96.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
21	0	95.8	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
22	0	96.0	97.3	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
23	0	96.3	97.7	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
24	0	96.3	97.7	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
25	0	96.4	97.9	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
26	0	96.6	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
27	0	96.7	98.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
28	0	96.7	98.2	98.9	99.0	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
29	0	96.7	98.2	98.9	99.1	99.2	99.2	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
30	0	96.7	98.2	98.9	99.2	99.4	99.4	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
31	0	96.7	98.2	98.9	99.2	99.4	99.4	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
32	0	96.7	98.2	98.9	99.2	99.4	99.4	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

HALMSTROM AFB MT

74-83

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

7200-0200
LOCAL TIME

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥20000	67.0	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.4	67.6	67.7	67.7	67.7	67.7	67.7	67.8
≥18000	72.4	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.8	73.0	73.1	73.1	73.1	73.1	73.1	73.2
≥16000	72.4	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.8	73.0	73.1	73.1	73.1	73.1	73.1	73.2
≥14000	72.9	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.3	73.5	73.7	73.7	73.7	73.7	73.7	73.8
≥12000	73.4	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.9	74.1	74.2	74.2	74.2	74.2	74.2	74.3
≥10000	76.7	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.1	77.4	77.5	77.5	77.5	77.5	77.5	77.6
≥8000	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.4	81.7	81.8	81.8	81.8	81.8	81.8	81.9
≥6000	81.9	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.4	82.7	82.8	82.8	82.8	82.8	82.8	82.9
≥4000	84.0	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.4	84.7	84.8	84.8	84.8	84.8	84.8	84.9
≥2000	84.4	84.9	84.9	84.9	84.9	84.9	84.9	84.9	85.1	85.4	85.5	85.5	85.5	85.5	85.5	85.6
≥1000	84.8	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.5	85.8	85.9	85.9	85.9	85.9	85.9	86.0
≥500	87.1	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.7	88.1	88.2	88.2	88.2	88.2	88.2	88.3
≥200	88.8	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.5	89.8	89.9	89.9	89.9	89.9	89.9	90.0
≥100	89.8	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.5	90.9	91.0	91.0	91.0	91.0	91.0	91.1
≥50	90.5	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.3	91.6	91.7	91.7	91.7	91.7	91.7	91.8
≥20	90.6	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.4	91.7	91.8	91.8	91.8	91.8	91.8	91.9
≥10	91.1	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.3	92.6	92.7	92.7	92.7	92.7	92.7	92.8
≥5	91.7	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.2	93.5	93.7	93.7	93.7	93.7	93.7	93.8
≥2	91.8	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.3	93.7	93.8	93.8	93.8	93.8	93.8	93.9
≥1	92.4	93.8	93.9	93.9	93.9	93.9	93.9	93.9	94.0	94.3	94.4	94.4	94.4	94.4	94.4	94.5
≥0.5	93.1	94.8	94.9	95.4	95.5	95.5	95.5	95.5	95.6	95.9	96.0	96.0	96.0	96.0	96.0	96.1
≥0.2	93.5	95.3	95.5	96.0	96.1	96.1	96.1	96.1	96.2	96.6	96.7	96.7	96.7	96.7	96.7	96.8
≥0.1	93.5	95.3	95.6	96.1	96.5	96.5	96.5	96.5	96.6	96.9	97.0	97.0	97.0	97.0	97.0	97.1
≥0.05	93.5	95.3	95.6	96.1	96.5	96.5	96.5	96.5	96.6	96.9	97.0	97.0	97.0	97.0	97.0	97.1
≥0.02	93.5	95.3	95.6	96.1	96.5	96.5	96.5	96.5	96.6	96.9	97.0	97.0	97.0	97.0	97.0	97.1
≥0.01	93.5	95.3	95.6	96.1	96.5	96.5	96.5	96.5	96.6	96.9	97.0	97.0	97.0	97.0	97.0	97.1
≥0.005	93.5	95.3	95.6	96.1	96.5	96.5	96.5	96.5	96.6	96.9	97.0	97.0	97.0	97.0	97.0	97.1
≥0.002	93.5	95.3	95.6	96.1	96.5	96.5	96.5	96.5	96.6	96.9	97.0	97.0	97.0	97.0	97.0	97.1
≥0.001	93.5	95.3	95.6	96.1	96.5	96.5	96.5	96.5	96.6	96.9	97.0	97.0	97.0	97.0	97.0	97.1
≥0.0005	93.5	95.3	95.6	96.1	96.5	96.5	96.5	96.5	96.6	96.9	97.0	97.0	97.0	97.0	97.0	97.1
≥0.0002	93.5	95.3	95.6	96.1	96.5	96.5	96.5	96.5	96.6	96.9	97.0	97.0	97.0	97.0	97.0	97.1
≥0.0001	93.5	95.3	95.6	96.1	96.5	96.5	96.5	96.5	96.6	96.9	97.0	97.0	97.0	97.0	97.0	97.1
≥0.00005	93.5	95.3	95.6	96.1	96.5	96.5	96.5	96.5	96.6	96.9	97.0	97.0	97.0	97.0	97.0	97.1
≥0.00002	93.5	95.3	95.6	96.1	96.5	96.5	96.5	96.5	96.6	96.9	97.0	97.0	97.0	97.0	97.0	97.1
≥0.00001	93.5	95.3	95.6	96.1	96.5	96.5	96.5	96.5	96.6	96.9	97.0	97.0	97.0	97.0	97.0	97.1

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MAHMSTROM AFB MT
STATION NAME

74-83
YEAR

OCT
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500
TIME

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .03	≥ .01
≥ 10000	65.7	66.3	66.7	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.5	66.6
≥ 8000	72.5	72.8	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.2	73.3
≥ 6000	72.5	72.8	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.2	73.3
≥ 4000	72.9	73.2	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.7	73.8
≥ 3000	73.7	74.0	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.4	74.5
≥ 2000	76.1	76.5	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.9	77.0
≥ 1500	81.1	81.4	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.8	81.9
≥ 1000	82.2	82.5	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.9	83.0
≥ 800	83.9	84.3	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.7	84.8
≥ 700	84.7	85.2	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.6	85.7
≥ 600	85.4	85.9	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.3	86.5
≥ 500	87.5	88.3	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.7	88.8
≥ 450	88.1	88.8	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.2	89.4
≥ 400	89.8	90.5	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.0	91.1
≥ 350	90.0	90.8	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.3	91.4
≥ 300	90.3	91.3	91.5	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.8	91.9
≥ 250	90.6	91.8	92.1	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.4	92.5
≥ 200	90.9	92.4	92.6	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.1	93.2
≥ 180	91.0	92.4	92.6	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.1	93.2
≥ 160	91.0	92.5	92.7	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.4	93.5
≥ 140	91.5	93.2	93.4	93.9	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.3	94.4
≥ 120	92.2	94.1	94.3	94.8	95.2	95.2	95.2	95.2	95.2	95.2	95.3	95.3	95.3	95.3	95.4	95.5
≥ 100	92.3	94.2	94.5	95.1	95.6	95.6	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.8	95.9
≥ 90	92.4	94.3	94.8	95.4	96.0	96.0	96.0	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.2	96.3
≥ 80	92.4	94.3	95.3	95.9	96.8	96.8	96.8	96.8	96.8	96.9	96.9	96.9	96.9	96.9	97.0	97.1
≥ 70	92.5	94.5	95.5	96.1	97.1	97.1	97.1	97.1	97.1	97.4	97.4	97.5	97.5	97.5	97.6	97.8
≥ 60	92.5	94.5	95.5	96.1	97.2	97.2	97.2	97.2	97.2	97.7	97.7	97.8	97.8	97.8	98.0	98.2
≥ 50	92.5	94.8	95.9	96.8	98.0	98.0	98.0	98.0	98.0	98.7	98.7	98.8	98.8	98.8	98.9	99.0
≥ 40	92.5	94.8	95.9	96.8	98.1	98.1	98.1	98.1	98.1	98.8	98.8	98.9	98.9	98.9	99.0	99.1
≥ 30	92.5	94.8	95.9	96.8	98.1	98.1	98.1	98.1	98.1	98.9	98.9	99.0	99.0	99.0	99.1	99.2
≥ 20	92.5	94.8	95.9	96.8	98.1	98.1	98.1	98.1	98.1	98.9	98.9	99.1	99.1	99.1	99.2	99.3
≥ 10	92.5	94.8	95.9	96.8	98.1	98.1	98.1	98.1	98.1	98.9	98.9	99.1	99.1	99.1	99.2	99.3

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 10-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

OCT
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0900
HOURS

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0.005
≥10000	61.1	61.2	61.2	61.4	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.7	61.7	61.9
≥8000	67.5	67.6	67.6	67.8	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.2	68.3	68.5
≥6000	67.6	67.7	67.7	68.0	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.3	68.4	68.6
≥4000	68.1	68.2	68.2	68.4	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.7	68.8	69.2
≥2000	68.9	68.9	68.9	69.1	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.5	69.6	70.0
≥1000	71.2	71.4	71.4	71.6	71.8	71.8	71.9	71.8	71.8	71.9	71.9	71.9	71.9	72.0	72.2	72.6
≥800	76.7	76.9	76.9	77.1	77.3	77.3	77.3	77.3	77.3	77.3	77.4	77.4	77.4	77.5	77.6	78.1
≥600	77.6	77.8	77.8	78.1	78.3	78.3	78.3	78.3	78.3	78.3	78.4	78.4	78.4	78.5	78.6	79.0
≥400	81.2	81.5	81.5	81.7	81.9	81.9	81.9	81.9	81.9	82.0	82.0	82.0	82.0	82.2	82.3	82.7
≥200	82.7	83.0	83.0	83.2	83.4	83.4	83.4	83.4	83.4	83.5	83.5	83.5	83.5	83.7	83.8	84.2
≥100	83.5	83.9	84.0	84.2	84.4	84.4	84.4	84.4	84.4	84.5	84.5	84.5	84.5	84.6	84.7	85.2
≥80	86.3	86.7	87.0	87.2	87.5	87.5	87.5	87.5	87.5	87.6	87.6	87.6	87.6	87.7	87.8	88.3
≥60	87.3	87.6	88.0	88.2	88.5	88.5	88.5	88.5	88.5	88.6	88.6	88.6	88.6	88.7	88.8	89.2
≥40	88.0	88.4	88.7	89.1	89.5	89.5	89.5	89.5	89.5	89.6	89.6	89.6	89.6	89.7	89.8	90.2
≥20	88.9	89.4	89.7	90.1	90.4	90.4	90.4	90.4	90.4	90.5	90.5	90.5	90.5	90.6	90.8	91.2
≥10	89.5	90.1	90.4	90.9	91.2	91.2	91.2	91.3	91.3	91.4	91.4	91.4	91.4	91.5	91.6	92.0
≥8	90.1	90.8	91.1	91.5	91.8	91.8	91.8	91.9	91.9	92.0	92.0	92.0	92.0	92.2	92.3	92.7
≥6	90.7	91.2	91.5	91.9	92.3	92.3	92.3	92.5	92.5	92.6	92.6	92.6	92.6	92.7	92.8	93.2
≥4	91.2	91.2	91.5	91.9	92.3	92.3	92.3	92.5	92.5	92.6	92.6	92.6	92.6	92.7	92.8	93.2
≥2	91.3	91.3	91.7	92.3	92.6	92.6	92.6	92.9	92.9	93.0	93.0	93.0	93.0	93.1	93.2	93.7
≥1	91.9	92.2	92.6	93.1	93.5	93.5	93.5	94.0	94.0	94.1	94.1	94.1	94.1	94.2	94.3	94.7
≥0.5	91.1	92.4	92.8	93.3	93.9	93.9	94.0	94.6	94.7	94.9	94.9	94.9	94.9	95.1	95.2	95.6
≥0.25	91.4	92.7	93.1	93.7	94.2	94.2	94.3	94.9	95.1	95.3	95.3	95.3	95.3	95.4	95.5	95.9
≥0.1	91.6	92.9	93.3	94.0	94.6	94.6	94.7	95.4	95.5	95.7	95.7	95.7	95.7	95.8	95.9	96.3
≥0.05	91.8	93.2	93.9	94.5	95.2	95.2	95.3	95.9	96.0	96.5	96.5	96.5	96.5	96.6	96.7	97.1
≥0.025	91.8	93.3	94.0	94.6	95.5	95.5	95.6	96.2	96.3	96.8	96.8	96.8	96.8	96.9	97.0	97.4
≥0.01	91.8	93.3	94.2	94.8	95.7	95.7	95.8	96.7	96.8	97.3	97.3	97.3	97.3	97.5	97.6	98.1
≥0.005	91.8	93.5	94.6	95.3	96.1	96.2	96.3	97.2	97.3	98.1	98.1	98.1	98.1	98.4	98.5	98.9
≥0.0025	91.8	93.5	94.6	95.3	96.1	96.2	96.3	97.2	97.3	98.2	98.2	98.2	98.2	98.5	98.6	99.0
≥0.001	91.8	93.5	94.6	95.3	96.1	96.3	96.5	97.4	97.7	98.7	98.8	98.8	98.8	99.5	99.6	100.0
≥0.0005	91.8	93.5	94.6	95.3	96.1	96.3	96.5	97.4	97.7	98.7	98.8	98.8	98.8	99.5	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

OCT
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1900-1100
SOURCE

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0.005
NO CEILING	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.2	57.2	57.2	57.2	57.2	57.2
≥20000	66.7	66.0	66.7	66.0	66.0	66.0	66.7	66.0	66.0	66.0	66.2	66.2	66.2	66.2	66.2	66.2
≥18000	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.3	66.3	66.3	66.3	66.3	66.3
≥16000	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	67.0	67.0	67.0	67.0	67.0	67.0
≥14000	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.4	69.4	69.4	69.4	69.4	69.4
≥12000	73.4	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.8	73.8	73.8	73.8	73.8	73.8
≥10000	79.2	79.2	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.6	79.6	79.6	79.6	79.6	79.6
≥9000	79.8	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	80.1	80.1	80.1	80.1	80.1	80.1
≥8000	82.5	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.9	82.9	82.9	82.9	82.9	82.9
≥7000	83.5	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	84.0	84.0	84.0	84.0	84.0	84.0
≥6000	84.8	84.9	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.4	85.4	85.4	85.4	85.4	85.4
≥5000	86.8	86.9	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.3	87.3	87.3	87.3	87.3	87.3
≥4500	87.1	87.2	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.6	87.6	87.6	87.6	87.6	87.6
≥4000	88.6	88.8	88.9	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.4	89.4	89.4	89.4	89.4	89.4
≥3500	89.1	89.4	89.6	89.7	89.8	89.8	89.8	89.8	89.8	89.8	90.0	90.0	90.0	90.0	90.0	90.0
≥3000	90.7	90.3	91.5	91.6	91.8	91.8	91.8	91.8	91.8	91.8	91.0	91.0	91.0	91.0	91.0	91.0
≥2500	91.2	90.6	91.1	91.1	91.3	91.3	91.3	91.3	91.3	91.3	91.5	91.5	91.5	91.5	91.5	91.5
≥2000	90.9	91.5	91.8	91.9	92.2	92.2	92.2	92.2	92.2	92.2	92.4	92.4	92.4	92.4	92.4	92.4
≥1800	91.9	91.5	91.8	91.9	92.2	92.2	92.2	92.2	92.2	92.2	92.4	92.4	92.4	92.4	92.4	92.4
≥1600	91.0	92.2	93.1	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.7	93.7	93.7	93.7	93.7	93.7
≥1400	91.6	92.9	94.1	94.2	94.4	94.4	94.4	94.4	94.4	94.4	94.6	94.6	94.6	94.6	94.6	94.6
≥1200	91.8	93.7	95.1	95.4	95.7	95.7	95.9	96.0	96.0	96.0	96.2	96.5	96.5	96.5	96.5	96.5
≥1000	91.8	93.7	95.1	95.4	95.7	95.7	95.9	96.0	96.0	96.0	96.2	96.5	96.5	96.5	96.5	96.5
≥900	91.8	93.7	95.1	95.5	95.8	95.8	96.1	96.1	96.1	96.1	96.3	96.6	96.6	96.6	96.6	96.6
≥800	92.0	94.0	95.4	95.8	96.1	96.1	96.3	96.5	96.5	96.5	96.7	96.9	96.9	96.9	96.9	96.9
≥700	92.2	94.2	95.6	96.0	96.3	96.3	96.6	96.7	96.7	96.7	97.0	97.2	97.2	97.2	97.2	97.2
≥600	92.4	94.4	95.8	96.2	96.6	96.6	96.9	97.1	97.2	97.5	97.7	97.7	97.7	97.7	97.7	97.7
≥500	92.4	94.4	95.8	96.2	96.6	96.6	96.9	97.2	97.4	98.0	98.2	98.2	98.2	98.2	98.2	98.2
≥400	92.4	94.5	96.1	96.6	96.9	96.9	97.3	97.6	98.0	98.5	98.7	98.7	98.8	98.8	98.8	98.8
≥300	92.4	94.5	96.1	96.6	97.1	97.2	97.6	98.0	98.3	98.9	99.1	99.1	99.2	99.4	99.5	99.5
≥200	92.4	94.5	96.1	96.6	97.1	97.2	97.6	98.0	98.5	99.1	99.4	99.4	99.5	99.6	99.7	99.7
≥100	92.4	94.5	96.1	96.6	97.1	97.2	97.6	98.0	98.5	99.2	99.5	99.5	99.7	99.8	100.0	100.0
≥0	92.4	94.5	96.1	96.6	97.1	97.2	97.6	98.0	98.5	99.2	99.5	99.5	99.7	99.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 1200 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

707755

MALMSTROM AFB MT

74-87

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1320-1400

CEILING FEET		VISIBILITY - STATUTE MILES															
		20	26	21	24	23	22	21	20	19	18	17	16	15	14	13	12
2	10000	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
2	7000	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
2	5000	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
2	4000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
2	3000	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
2	2000	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
2	1000	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
2	900	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
2	800	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
2	700	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
2	600	84.5	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
2	500	86.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
2	400	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
2	300	89.1	89.4	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
2	200	89.5	89.9	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
2	100	90.9	91.5	91.6	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
2	2000	91.4	92.2	92.3	92.5	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
2	1000	92.3	93.3	93.5	93.8	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
2	800	92.5	93.7	93.9	94.1	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
2	700	93.8	95.3	95.5	95.8	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
2	600	93.9	95.4	95.7	96.0	96.1	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
2	500	94.3	95.9	96.2	96.7	96.9	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
2	400	94.4	96.1	96.5	96.9	97.1	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
2	300	94.4	96.2	96.6	97.0	97.2	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
2	200	94.4	96.5	96.8	97.2	97.4	97.6	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
2	100	94.5	96.7	97.1	97.6	97.8	98.1	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
2	500	94.5	96.7	97.2	98.1	98.3	98.5	99.0	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
2	400	94.5	96.7	97.2	98.1	98.3	98.6	99.1	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4
2	300	94.5	96.7	97.2	98.1	98.3	98.6	99.4	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
2	200	94.5	96.7	97.2	98.1	98.4	98.7	99.6	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	100	94.5	96.7	97.2	98.1	98.4	98.7	99.6	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	50	94.5	96.7	97.2	98.1	98.4	98.7	99.6	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 11-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-87

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

		VISIBILITY - STATUTE MILES															
		20	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1	1000	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
2	900	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
3	800	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
4	700	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
5	600	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
6	500	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
7	400	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
8	300	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
9	200	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
10	100	83.9	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
11	90	84.9	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
12	80	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
13	70	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
14	60	91.3	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
15	50	91.6	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
16	40	93.1	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
17	30	93.7	94.2	94.2	94.3	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
18	20	94.7	95.5	95.5	95.7	95.7	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
19	10	94.8	95.6	95.6	95.8	95.8	95.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
20	0	95.5	96.2	96.2	96.5	96.5	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
21	900	95.5	96.2	96.2	96.5	96.5	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
22	800	95.8	96.7	96.7	96.9	96.9	97.1	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
23	700	96.0	97.0	97.0	97.2	97.2	97.3	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
24	600	96.0	97.0	97.0	97.2	97.2	97.3	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
25	500	96.1	97.1	97.1	97.3	97.3	97.4	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
26	400	96.1	97.3	97.3	97.5	97.5	97.6	98.2	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5
27	300	96.0	97.5	97.6	97.8	97.8	98.1	98.6	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0
28	200	96.0	97.5	97.6	98.1	98.2	98.3	98.8	98.9	99.1	99.2	99.5	99.5	99.5	99.5	99.5	99.5
29	100	96.0	97.5	97.7	98.2	98.3	98.4	98.9	99.2	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0
30	0	96.1	97.5	97.7	98.2	98.3	98.4	98.9	99.2	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0
31		96.0	97.5	97.7	98.2	98.3	98.4	98.9	99.2	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOPAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-83

2CT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1973-2000

ELEVATION FEET	VISIBILITY STATISTICAL VALUES															
	200	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1. 0	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
2. 100	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
3. 200	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
4. 300	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
5. 400	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
6. 500	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
7. 600	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
8. 700	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
9. 800	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
10. 900	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
11. 1000	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
12. 1100	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
13. 1200	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
14. 1300	90.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
15. 1400	91.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
16. 1500	92.5	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
17. 1600	93.1	93.8	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
18. 1700	94.0	94.8	94.8	94.9	94.9	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
19. 1800	94.3	95.3	95.3	95.4	95.4	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
20. 1900	94.6	95.7	95.7	95.9	95.9	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
21. 2000	94.7	96.0	96.0	96.2	96.2	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
22. 2100	95.2	96.5	96.5	96.7	96.7	97.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
23. 2200	95.2	96.5	96.5	96.7	96.7	97.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
24. 2300	95.3	96.9	96.9	97.1	97.1	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
25. 2400	95.4	97.1	97.2	97.4	97.5	97.8	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
26. 2500	95.5	97.3	97.4	97.6	97.7	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
27. 2600	95.5	97.3	97.4	97.7	98.1	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
28. 2700	95.5	97.3	97.4	97.8	98.4	98.7	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
29. 2800	95.5	97.3	97.4	97.8	98.5	98.8	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
30. 2900	95.5	97.3	97.4	97.8	98.5	98.8	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
31. 3000	95.5	97.3	97.4	97.8	98.5	98.8	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
32. 3100	95.5	97.3	97.4	97.8	98.5	98.8	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

707755

MALMSTROM AFB MT

74-87

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥1000	63.4	63.5	63.5	63.5	63.7	63.7	63.7	63.7	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8
2 1000	69.5	69.6	69.6	69.6	69.7	69.7	69.7	69.7	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8
2 800	69.7	69.8	69.8	69.8	69.9	69.9	69.9	69.9	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0
2 600	69.8	69.9	69.9	69.9	70.0	70.0	70.0	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1
2 400	70.9	71.0	71.0	71.0	71.1	71.1	71.1	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2
2 200	75.3	75.4	75.4	75.4	75.5	75.5	75.5	75.5	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6
2 1000	81.2	81.3	81.3	81.3	81.4	81.4	81.4	81.4	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5
2 800	83.1	83.2	83.2	83.2	83.3	83.3	83.3	83.3	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4
2 600	84.8	84.9	84.9	84.9	85.1	85.1	85.1	85.1	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2
2 400	85.8	85.9	85.9	85.9	86.0	86.0	86.0	86.0	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1
2 200	86.1	86.2	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.5	86.5	86.5	86.5	86.5	86.5	86.5
2 1000	88.1	88.2	88.2	88.2	88.3	88.3	88.3	88.3	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4
2 800	88.8	89.0	89.0	89.0	89.1	89.1	89.1	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2
2 600	90.4	90.6	90.6	90.6	90.8	90.8	90.8	90.8	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9
2 400	91.5	91.7	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9
2 200	92.6	92.8	92.8	92.8	92.9	92.9	92.9	92.9	92.9	93.1	93.1	93.1	93.1	93.1	93.1	93.1
2 1000	93.1	93.5	93.5	93.5	93.7	93.7	93.8	93.8	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0
2 800	93.7	94.4	94.4	94.4	94.6	94.6	94.7	94.7	94.7	94.9	94.9	94.9	94.9	94.9	94.9	94.9
2 600	94.1	94.6	94.6	94.6	94.8	94.8	94.9	94.9	94.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2
2 400	94.1	95.3	95.3	95.3	95.5	95.5	95.6	95.6	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8
2 200	94.3	95.5	95.5	95.5	95.7	95.7	95.8	95.8	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0
2 1000	94.6	96.1	96.1	96.1	96.5	96.5	96.6	96.6	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8
2 800	94.6	96.1	96.1	96.1	96.8	96.8	96.9	96.9	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1
2 600	94.6	96.1	96.1	96.1	96.8	96.8	96.9	96.9	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1
2 400	94.6	96.2	96.2	96.2	96.9	96.9	97.0	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4
2 200	94.9	96.6	96.6	96.7	97.3	97.3	97.4	97.7	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0
2 1000	94.9	96.6	96.6	96.7	97.3	97.3	97.5	98.0	98.0	98.3	98.3	98.3	98.3	98.3	98.3	98.3
2 800	94.9	96.6	96.6	96.7	97.3	97.3	97.6	98.2	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5
2 600	94.9	96.8	96.8	96.9	97.8	97.8	98.2	98.7	98.7	99.2	99.2	99.6	99.6	99.6	99.6	99.6
2 400	94.9	96.8	96.8	96.9	97.8	97.8	98.2	98.7	98.7	98.9	98.9	99.4	99.4	99.7	99.7	99.7
2 200	94.9	96.8	96.8	96.9	97.8	97.8	98.2	98.8	98.8	99.0	99.6	99.6	99.9	99.9	100.0	100.0
2 1000	94.9	96.8	96.8	96.9	97.8	97.8	98.2	98.8	98.8	99.0	99.6	99.6	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-83

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY - STATUTE MILES															
	20	20	25	24	23	22	22	21	21	20	20	20	20	20	20	20
10000	67.3	67.4	67.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
9000	67.9	68.7	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.2	68.2	68.2	68.2	68.3	68.3	68.3
8000	68.2	68.3	68.4	68.4	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.6	68.6	68.7
7000	68.6	68.7	68.9	68.8	68.8	68.8	68.8	68.8	68.8	68.9	68.9	68.9	68.9	69.0	69.0	69.0
6000	70.2	70.3	70.3	70.4	70.4	70.4	70.4	70.4	70.4	70.5	70.5	70.5	70.5	70.5	70.6	70.6
5000	73.9	74.0	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.2	74.2	74.2	74.2	74.3	74.3	74.3
4000	79.6	79.7	79.8	79.8	79.9	79.9	79.9	79.9	79.9	80.0	80.0	80.0	80.0	80.1	80.1	80.1
3000	87.8	87.9	87.9	81.0	81.0	81.0	81.0	81.0	81.0	81.1	81.1	81.1	81.2	81.2	81.2	81.3
2000	83.4	83.6	83.6	83.7	83.7	83.7	83.7	83.7	83.7	83.8	83.8	83.8	83.8	83.9	83.9	83.9
1000	84.3	84.5	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.7	84.7	84.7	84.7	84.8	84.8	84.9
800	85.2	85.4	85.5	85.5	85.6	85.6	85.6	85.6	85.6	85.7	85.7	85.7	85.7	85.7	85.8	85.8
700	87.2	87.4	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.7	87.7	87.7	87.7	87.8	87.8	87.9
600	88.1	88.4	88.5	88.5	88.6	88.6	88.6	88.6	88.6	88.7	88.7	88.7	88.7	88.8	88.8	88.8
500	89.6	90.0	90.1	90.2	90.2	90.2	90.2	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.5
400	90.4	90.8	90.9	91.0	91.1	91.1	91.1	91.1	91.1	91.2	91.2	91.2	91.2	91.3	91.3	91.3
300	91.2	91.7	91.8	91.9	92.0	92.0	92.0	92.0	92.0	92.2	92.2	92.2	92.2	92.2	92.2	92.3
200	91.7	92.4	92.5	92.6	92.7	92.8	92.8	92.8	92.8	92.9	92.9	92.9	92.9	93.0	93.0	93.1
100	92.3	93.3	93.4	93.6	93.7	93.8	93.8	93.8	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.1
800	92.4	93.4	93.6	93.8	93.9	93.9	94.0	94.0	94.0	94.1	94.1	94.1	94.1	94.2	94.2	94.2
700	92.8	94.0	94.3	94.5	94.6	94.7	94.7	94.8	94.8	94.9	94.9	94.9	94.9	94.9	95.0	95.0
600	93.2	94.5	94.8	95.1	95.3	95.3	95.4	95.4	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.7
500	93.6	95.1	95.4	95.7	96.0	96.0	96.2	96.3	96.4	96.5	96.5	96.5	96.5	96.6	96.6	96.7
400	93.7	95.2	95.5	95.9	96.2	96.3	96.4	96.5	96.6	96.7	96.7	96.7	96.8	96.8	96.8	96.9
300	93.7	95.3	95.7	96.0	96.4	96.5	96.6	96.7	96.8	96.9	96.9	96.9	97.0	97.0	97.0	97.1
200	93.8	95.5	95.9	96.3	96.7	96.8	96.9	97.1	97.1	97.3	97.4	97.4	97.4	97.4	97.4	97.5
100	93.9	95.6	96.1	96.6	97.0	97.1	97.3	97.6	97.6	97.8	97.8	97.8	97.9	97.9	97.9	98.0
800	93.9	95.7	96.2	96.7	97.2	97.3	97.6	97.9	98.0	98.3	98.3	98.3	98.3	98.3	98.4	98.4
700	93.9	95.8	96.4	96.9	97.5	97.6	97.9	98.3	98.4	98.7	98.8	98.8	98.8	98.9	98.9	99.0
600	93.9	95.8	96.5	97.0	97.7	97.8	98.2	98.6	98.8	99.1	99.2	99.2	99.3	99.4	99.4	99.5
500	93.9	95.8	96.5	97.0	97.8	97.9	98.3	98.8	99.0	99.5	99.5	99.6	99.7	99.8	99.9	100.0
400	93.9	95.8	96.5	97.0	97.8	97.9	98.3	98.8	99.0	99.5	99.5	99.6	99.7	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 7480

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEAR

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200
TIME

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥9	≥8	≥7	≥6	≥5	≥4	≥3	≥2	≥1	≥1/2	≥1/4	≥1/8	≥1/16	≥1/32	≥1/64
NO CEILING	57.3	57.4	57.7	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	58.0	58.0	58.1
≥2000	63.8	63.9	64.1	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.6	64.6	64.7
≥1800	64.1	64.2	64.4	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.9	64.9	65.0
≥1600	64.2	64.3	64.6	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	65.0	65.0	65.1
≥1400	66.2	66.3	66.6	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	67.0	67.0	67.1
≥1200	68.4	68.6	68.8	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.2	69.2	69.3
≥1000	76.7	76.2	76.4	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.9	76.9	77.0
≥900	76.9	77.1	77.3	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.8	77.8	77.9
≥800	78.8	79.0	79.2	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.7	79.7	79.8
≥700	79.9	80.2	80.4	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.9	80.9	81.0
≥600	87.3	80.7	80.9	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.3	81.3	81.4
≥500	81.7	82.2	82.4	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	83.0	83.0	83.1
≥450	82.4	83.1	83.3	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	84.0	84.0	84.1
≥400	85.1	86.2	86.4	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	87.1	87.1	87.2
≥350	85.7	86.9	87.1	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.8	87.8	87.9
≥300	86.7	88.2	88.6	88.9	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.3	89.3	89.4
≥250	86.9	88.8	89.1	89.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.9	89.9	90.0
≥200	87.4	89.8	90.2	90.6	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.6	91.6	91.7
≥180	87.8	90.2	90.7	91.0	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	92.0	92.0	92.1
≥150	88.1	90.6	91.1	91.9	92.7	92.8	93.6	93.9	93.9	94.0	94.0	94.0	94.0	94.2	94.2	94.3
≥120	88.1	90.8	91.3	92.1	92.9	93.7	94.1	94.9	94.9	95.0	95.1	95.1	95.1	95.4	95.4	95.6
≥100	88.1	90.8	91.3	92.1	92.9	93.3	94.6	95.3	95.4	95.7	95.9	95.9	95.9	96.2	96.2	96.3
≥90	88.4	91.1	91.7	92.4	93.2	93.7	94.9	95.7	95.8	96.0	96.2	96.2	96.2	96.6	96.6	96.7
≥80	88.7	91.4	92.0	92.8	93.8	94.3	95.6	96.3	96.4	96.7	96.9	96.9	96.9	97.2	97.2	97.3
≥70	88.9	91.8	92.4	93.4	94.4	95.1	96.3	97.1	97.2	97.4	97.7	97.7	97.7	98.0	98.0	98.1
≥60	89.0	92.1	92.9	93.9	94.9	95.8	97.1	97.9	98.0	98.4	98.7	98.7	98.7	99.0	99.0	99.1
≥50	89.0	92.2	93.1	94.1	95.2	96.1	97.4	98.2	98.3	98.8	99.0	99.0	99.0	99.3	99.3	99.4
≥40	89.0	92.2	93.1	94.1	95.3	96.2	97.6	98.3	98.4	98.9	99.1	99.1	99.1	99.4	99.4	99.6
≥30	89.0	92.2	93.1	94.1	95.4	96.6	97.9	98.7	98.8	99.2	99.6	99.6	99.6	99.9	99.9	100.0
≥20	89.0	92.2	93.1	94.1	95.4	96.6	97.9	98.7	98.8	99.2	99.6	99.6	99.6	99.9	99.9	100.0
≥10	89.0	92.2	93.1	94.1	95.4	96.6	97.9	98.7	98.8	99.2	99.6	99.6	99.6	99.9	99.9	100.0
≥0	89.0	92.2	93.1	94.1	95.4	96.6	97.9	98.7	98.8	99.2	99.6	99.6	99.6	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 970

USAF ETAC FORM 11-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-87

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥9	≥8	≥7	≥6	≥5	≥4	≥3	≥2	≥1	≥1/2	≥1/4	≥1/8	≥1/16	≥1/32	≥0
≥20000	55.7	57.1	57.1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥18000	63.8	64.7	64.7	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
≥16000	64.2	64.4	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥14000	64.6	64.8	64.8	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
≥12000	65.8	66.7	66.7	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥10000	68.3	68.6	68.6	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥8000	75.6	75.9	76.1	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥6000	76.7	77.0	77.2	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥4000	78.9	79.2	79.4	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥2000	79.6	79.9	80.1	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥1000	79.9	80.2	80.4	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥500	81.0	81.3	81.6	81.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥250	81.6	81.9	82.1	82.2	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥100	83.4	84.1	84.3	84.6	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥50	84.4	85.1	85.6	85.8	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥25	84.9	85.9	86.4	86.7	87.4	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥10	85.6	86.8	87.4	87.7	88.6	88.7	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥5	86.1	87.8	88.4	88.8	89.7	89.8	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥2	86.1	87.8	88.6	88.9	89.9	90.0	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥1	86.3	88.2	89.1	89.7	91.1	91.2	91.6	92.1	92.3	92.9	92.9	92.9	92.9	93.1	93.1	93.1
≥0.5	86.3	88.3	89.2	89.8	91.2	91.3	92.4	93.1	93.4	94.0	94.0	94.0	94.0	94.2	94.2	94.2
≥0.25	86.4	88.7	89.6	90.1	91.7	92.0	92.7	93.8	94.2	95.7	95.7	95.7	95.7	95.2	95.2	95.2
≥0.1	86.7	88.9	89.9	90.4	92.2	92.6	93.2	94.4	94.9	95.7	95.7	95.7	95.7	95.9	95.9	95.9
≥0.05	86.8	89.2	90.3	90.9	92.7	93.0	93.7	94.9	95.4	96.2	96.2	96.2	96.2	96.4	96.4	96.4
≥0.025	87.0	89.4	90.9	91.4	93.2	93.6	94.2	95.4	96.0	96.9	96.9	96.9	96.9	97.1	97.1	97.1
≥0.01	87.1	89.7	91.2	92.0	93.8	94.2	94.9	96.1	96.8	97.7	97.7	97.7	97.7	97.9	97.9	97.9
≥0.005	87.1	89.7	91.2	92.0	93.8	94.2	94.9	96.1	96.8	97.7	97.7	97.7	97.7	97.9	97.9	97.9
≥0.0025	87.1	89.8	91.3	92.1	93.9	94.3	95.0	96.3	97.0	98.0	98.0	98.0	98.0	98.4	98.4	98.4
≥0.001	87.1	89.9	91.4	92.2	94.2	95.0	95.7	97.0	97.7	98.7	98.9	98.9	98.9	99.1	99.1	99.1
≥0.0005	87.2	90.0	91.6	92.3	94.3	95.2	95.9	97.2	97.9	98.9	99.1	99.1	99.1	99.3	99.3	99.3
≥0.00025	87.2	90.0	91.6	92.3	94.3	95.2	96.0	97.3	98.0	99.0	99.2	99.2	99.2	99.4	99.4	99.4
≥0.0001	87.2	90.0	91.6	92.3	94.3	95.2	96.0	97.3	98.0	99.0	99.2	99.2	99.2	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 970

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-83

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

5500-0800

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0.005
≥20000	49.7	50.0	50.0	50.0	50.3	50.3	50.3	50.4	50.4	50.6	50.6	50.6	50.6	50.7	50.8	50.9
≥18000	57.8	58.1	58.2	58.2	58.6	58.6	58.6	58.7	58.7	58.8	58.8	58.8	58.8	58.9	59.0	59.1
≥16000	58.0	58.3	58.4	58.4	58.8	58.8	58.8	58.9	58.9	59.0	59.0	59.0	59.0	59.1	59.2	59.3
≥14000	58.1	58.4	58.6	58.6	58.9	58.9	58.9	59.0	59.0	59.1	59.1	59.1	59.1	59.2	59.3	59.4
≥12000	59.9	60.2	60.3	60.3	60.7	60.7	60.7	60.8	60.8	60.9	60.9	60.9	60.9	61.0	61.1	61.2
≥10000	64.1	64.4	64.6	64.6	64.9	64.9	64.9	65.0	65.0	65.1	65.1	65.1	65.1	65.2	65.3	65.4
≥8000	71.6	71.9	72.1	72.1	72.4	72.6	72.6	72.7	72.7	72.8	72.8	72.8	72.9	73.0	73.1	73.2
≥6000	73.8	74.1	74.3	74.3	74.7	74.8	74.8	74.9	74.9	75.0	75.0	75.0	75.1	75.2	75.3	75.4
≥4000	76.4	76.9	77.1	77.1	77.4	77.7	77.7	77.8	77.8	77.9	77.9	77.9	78.0	78.1	78.2	78.3
≥2000	77.8	78.2	78.4	78.4	78.8	79.1	79.1	79.2	79.2	79.3	79.3	79.3	79.4	79.6	79.7	79.8
≥1000	78.6	79.1	79.4	79.4	79.8	80.1	80.1	80.2	80.2	80.3	80.3	80.3	80.4	80.6	80.7	80.8
≥800	80.7	80.7	81.1	81.0	81.6	81.9	82.0	82.1	82.1	82.2	82.2	82.2	82.3	82.4	82.6	82.7
≥600	81.2	81.9	82.2	82.2	82.8	83.1	83.2	83.3	83.3	83.4	83.4	83.4	83.6	83.7	83.8	83.9
≥400	82.7	83.4	83.8	83.8	84.4	85.0	85.1	85.2	85.3	85.4	85.4	85.4	85.6	85.7	85.8	85.9
≥200	83.2	84.0	84.6	84.6	85.2	85.9	86.0	86.1	86.2	86.3	86.3	86.3	86.4	86.6	86.7	86.8
≥100	83.9	84.9	85.4	85.4	86.2	86.9	87.0	87.1	87.2	87.3	87.3	87.3	87.4	87.6	87.7	87.8
≥80	84.6	85.9	86.7	86.7	87.8	88.4	88.6	88.7	88.8	88.9	88.9	88.9	89.0	89.1	89.2	89.3
≥60	84.8	86.7	87.6	87.6	88.8	89.4	89.8	90.0	90.1	90.6	90.6	90.6	90.7	90.8	90.9	91.0
≥40	85.2	87.7	88.8	89.1	90.7	91.3	91.7	92.1	92.2	92.8	92.9	92.9	93.0	93.1	93.2	93.3
≥20	85.6	88.0	89.1	89.4	91.0	91.9	92.4	93.0	93.1	93.9	94.2	94.2	94.3	94.4	94.6	94.7
≥10	85.7	88.3	89.4	89.9	91.4	92.3	93.0	93.4	93.7	94.4	94.8	94.8	94.9	95.0	95.1	95.2
≥8	85.7	88.4	89.6	90.0	91.6	92.4	93.0	93.8	94.1	95.0	95.3	95.3	95.4	95.6	95.7	95.8
≥6	85.8	88.7	89.8	90.2	91.8	92.7	93.6	94.0	94.3	95.3	95.7	95.7	95.9	96.0	96.2	96.3
≥4	85.8	88.9	90.0	90.4	92.0	92.9	93.9	94.3	94.7	95.7	96.0	96.0	96.2	96.3	96.6	96.7
≥2	85.8	88.9	90.0	90.4	92.0	93.1	94.3	94.8	95.1	96.1	96.4	96.4	96.7	96.8	97.0	97.1
≥1	85.8	88.9	90.0	90.4	92.0	93.1	94.3	94.8	95.1	96.1	96.6	96.6	96.8	97.0	97.2	97.3
≥0.5	85.8	89.6	90.7	91.1	92.7	93.8	95.2	95.9	96.2	97.2	97.7	97.7	97.9	98.1	98.3	98.4
≥0.25	85.8	89.9	91.0	91.7	93.2	94.6	96.0	96.7	97.0	98.0	98.4	98.4	98.7	98.9	99.1	99.2
≥0.1	85.8	89.9	91.0	91.7	93.3	94.7	96.1	96.9	97.3	98.3	98.8	98.8	99.2	99.4	99.7	99.8
≥0.05	85.8	89.9	91.0	91.7	93.3	94.7	96.2	97.0	97.4	98.4	98.9	98.9	99.4	99.7	99.9	100.0
≥0.025	85.8	89.9	91.0	91.7	93.3	94.7	96.2	97.0	97.4	98.4	98.9	98.9	99.4	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 920

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72755

MAHMSTROM AFB MT

74-83

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1977-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥ 2000	45.8	46.1	46.3	46.4	46.4	46.7	46.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
1800	53.6	53.9	54.1	54.2	54.2	54.4	54.4	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
1600	54.2	54.6	54.8	54.9	54.9	55.1	55.1	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
1400	54.3	54.7	54.8	55.0	55.0	55.2	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
1200	56.4	56.8	57.1	57.1	57.1	57.3	57.3	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
1000	63.3	63.7	63.9	64.0	64.0	64.2	64.2	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4
800	70.1	70.4	70.7	70.8	70.8	71.0	71.0	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2
600	72.8	73.1	73.3	73.4	73.4	73.7	73.7	73.8	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9
400	76.3	76.8	77.0	77.1	77.1	77.3	77.3	77.4	77.4	77.6	77.6	77.6	77.6	77.6	77.6	77.6
200	77.6	78.0	78.2	78.3	78.3	78.6	78.6	78.7	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8
100	78.8	79.2	79.6	79.8	79.8	80.0	80.0	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2
80	81.2	81.7	82.0	82.2	82.2	82.4	82.4	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7
60	82.7	83.1	83.4	83.7	83.7	83.9	83.9	84.0	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1
40	84.1	84.7	85.0	85.2	85.4	85.7	85.7	85.9	85.9	86.0	86.1	86.1	86.1	86.1	86.1	86.1
20	84.3	85.1	85.6	85.9	86.2	86.4	86.4	86.7	86.7	87.0	87.1	87.1	87.1	87.1	87.1	87.1
10	85.0	85.8	86.2	86.6	87.1	87.3	87.3	87.6	87.6	88.0	88.1	88.1	88.1	88.1	88.1	88.1
5	85.2	86.3	86.9	87.2	87.8	88.0	88.0	88.2	88.4	88.8	88.9	88.9	88.9	88.9	88.9	88.9
2.5	85.6	87.0	87.6	87.9	88.6	88.9	88.9	89.4	89.7	90.1	90.2	90.2	90.2	90.2	90.2	90.2
1.5	85.7	87.1	87.7	88.0	88.7	89.0	89.1	89.6	89.8	90.2	90.3	90.3	90.3	90.3	90.3	90.3
1.0	86.7	88.0	88.6	89.0	89.7	90.0	90.1	90.9	91.2	91.9	92.1	92.1	92.2	92.2	92.2	92.2
0.75	86.1	88.6	89.1	89.6	90.2	90.6	90.8	91.6	92.2	93.2	93.6	93.6	93.7	93.7	93.7	93.7
0.5	86.4	89.3	89.9	90.3	91.0	91.4	91.8	92.7	93.3	94.7	95.2	95.2	95.3	95.4	95.4	95.4
0.3	86.4	89.3	89.9	90.3	91.1	91.6	92.0	92.9	93.8	95.2	95.8	95.8	96.0	96.2	96.2	96.2
0.25	86.4	89.4	90.0	90.4	91.2	91.7	92.1	93.0	93.9	95.3	96.1	96.1	96.3	96.7	96.7	96.7
0.2	86.4	89.4	90.0	90.4	91.2	91.7	92.1	93.0	93.9	95.3	96.1	96.1	96.3	96.7	96.7	96.7
0.15	86.7	89.8	90.3	91.0	91.8	92.2	92.8	93.8	94.8	96.9	97.7	97.7	97.9	98.2	98.2	98.2
0.1	86.7	89.9	90.7	91.3	92.1	92.7	93.2	94.2	95.2	97.4	98.2	98.2	98.6	98.9	98.9	98.9
0.075	86.8	90.0	90.8	91.4	92.4	93.0	93.6	94.6	95.6	97.8	98.7	98.7	99.0	99.3	99.3	99.3
0.05	86.8	90.0	90.8	91.4	92.4	93.0	93.6	94.6	95.6	97.8	98.7	98.7	99.0	99.3	99.3	99.3
0.025	86.8	90.1	90.9	91.7	92.8	93.4	94.0	95.0	96.1	98.4	99.3	99.3	99.7	100.0	100.0	100.0
0.01	86.8	90.1	90.9	91.7	92.8	93.4	94.0	95.0	96.1	98.4	99.3	99.3	99.7	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC FORM 11-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400
TIME

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥ 20000	48.2	48.4	48.6	48.8	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
≥ 18000	55.8	56.2	56.1	56.3	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
≥ 16000	56.3	56.6	56.7	56.9	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 14000	56.7	56.9	57.0	57.2	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 12000	59.6	59.8	59.9	60.1	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 10000	66.8	67.0	67.1	67.3	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 9000	73.3	73.6	73.7	74.0	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 8000	76.0	76.2	76.3	76.7	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 7000	78.2	78.6	78.7	79.0	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 6000	79.2	79.6	79.7	80.0	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 5000	79.6	79.9	80.0	80.3	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
≥ 4500	82.1	82.4	82.6	82.9	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 4000	83.2	83.6	83.8	84.1	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 3500	84.8	85.2	85.7	86.0	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
≥ 3000	84.9	85.4	86.2	86.6	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 2500	85.6	86.3	87.1	87.4	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 2000	85.9	87.0	87.8	88.2	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1800	86.7	87.1	88.1	88.6	89.3	89.6	89.6	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 1600	86.2	87.3	88.3	88.8	89.6	89.8	89.8	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1400	86.4	87.7	88.7	89.1	90.0	90.3	90.3	90.7	90.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1200	87.1	88.7	89.9	90.6	91.4	91.8	91.9	92.4	92.6	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 1000	87.2	88.9	90.2	91.0	92.1	92.4	92.7	93.4	93.9	94.9	94.9	95.0	95.0	95.1	95.1	95.1
≥ 900	87.3	89.0	90.4	91.2	92.3	92.7	93.0	93.8	94.2	95.3	95.4	95.6	95.6	95.7	95.7	95.8
≥ 800	87.4	89.1	90.6	91.3	92.4	92.8	93.1	94.0	94.4	95.6	95.9	96.0	96.1	96.2	96.2	96.4
≥ 700	87.4	89.1	90.7	91.4	92.7	93.1	93.4	94.4	94.9	96.0	96.6	96.7	96.8	96.9	97.1	97.3
≥ 600	87.7	89.8	91.4	92.4	93.8	94.2	94.6	95.6	96.0	97.4	98.1	98.2	98.4	98.6	98.8	99.0
≥ 500	87.7	89.8	91.4	92.4	93.8	94.2	94.6	95.6	96.0	97.4	98.1	98.2	98.4	98.6	98.8	99.0
≥ 400	87.7	89.9	91.6	92.6	93.9	94.3	94.7	95.8	96.2	97.7	98.4	98.6	98.8	99.0	99.2	99.6
≥ 300	87.7	89.9	91.6	92.6	93.9	94.3	94.7	95.8	96.2	97.7	98.4	98.6	98.8	99.0	99.2	99.6
≥ 200	87.7	89.9	91.6	92.6	93.9	94.3	94.7	95.8	96.2	97.7	98.4	98.6	98.8	99.0	99.2	99.6
≥ 100	87.7	89.9	91.6	92.6	93.9	94.3	94.7	95.8	96.2	97.7	98.4	98.6	98.8	99.0	99.2	99.6
≥ 0	87.7	89.9	91.6	92.6	93.9	94.3	94.7	95.8	96.2	97.7	98.4	98.6	98.8	99.0	99.2	99.6

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-83

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	20
≥ 7000	52.7	52.8	53.1	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
≥ 6000	59.0	59.2	59.4	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 5000	59.5	59.7	60.0	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
≥ 4000	59.7	60.0	60.2	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
≥ 3000	61.1	61.3	61.5	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 2000	67.2	67.4	67.6	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
≥ 1000	73.7	74.2	74.4	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
≥ 900	75.6	76.1	76.3	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 800	78.5	79.2	79.4	79.6	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 700	80.2	81.0	81.3	81.5	81.6	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 6000	81.5	82.3	82.6	82.9	83.0	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 5000	82.1	82.9	83.2	83.4	83.5	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
≥ 4500	83.3	84.1	84.4	84.6	84.8	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 4000	85.4	86.2	86.8	87.1	87.2	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 3500	85.8	86.5	87.3	87.7	87.8	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 3000	86.7	87.7	88.4	88.8	89.1	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 2500	86.7	87.7	88.4	88.8	89.2	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 2000	86.9	88.3	89.2	89.7	90.2	90.5	90.5	90.5	90.5	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 1800	86.9	88.3	89.3	89.8	90.3	90.8	90.8	90.8	90.8	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1500	87.7	88.7	89.7	90.1	90.9	91.7	91.7	91.7	91.7	92.3	92.3	92.5	92.5	92.5	92.7	92.7
≥ 1200	87.8	89.4	90.4	91.1	92.0	92.9	92.9	92.9	93.0	93.8	93.8	94.0	94.0	94.1	94.2	94.2
≥ 1000	88.2	90.0	91.1	91.9	92.8	93.7	93.8	93.9	94.1	95.3	95.8	95.8	95.9	96.0	96.1	96.1
≥ 900	88.2	90.0	91.1	92.0	92.9	93.8	93.9	94.1	94.4	95.7	96.1	96.1	96.2	96.3	96.4	96.4
≥ 800	88.2	90.0	91.1	92.0	93.0	94.0	94.1	94.3	94.7	96.0	96.4	96.4	96.6	96.7	96.8	96.8
≥ 700	88.2	90.0	91.1	92.1	93.1	94.4	94.4	95.0	95.3	96.8	97.2	97.2	97.3	97.4	97.7	97.7
≥ 600	88.3	90.3	91.4	92.5	93.7	95.0	95.4	95.7	96.0	98.0	98.4	98.4	98.7	98.8	99.0	99.0
≥ 500	88.3	90.3	91.4	92.5	93.7	95.1	95.6	96.0	96.3	98.4	99.0	99.0	99.2	99.3	99.6	99.6
≥ 400	88.3	90.3	91.5	92.7	93.8	95.2	95.7	96.1	96.6	98.7	99.2	99.2	99.4	99.6	99.8	99.8
≥ 300	88.3	90.3	91.5	92.7	93.8	95.2	95.8	96.2	96.7	98.8	99.3	99.3	99.6	99.7	100.0	100.0
≥ 200	88.3	90.3	91.5	92.7	93.8	95.2	95.8	96.2	96.7	98.8	99.3	99.3	99.6	99.7	100.0	100.0
≥ 100	88.3	90.3	91.5	92.7	93.8	95.2	95.8	96.2	96.7	98.8	99.3	99.3	99.6	99.7	100.0	100.0
≥ 0	88.3	90.3	91.5	92.7	93.8	95.2	95.8	96.2	96.7	98.8	99.3	99.3	99.6	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 899

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-87

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	53.6	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
≥ 25000	60.3	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 18000	60.9	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
≥ 16000	60.9	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
≥ 14000	62.1	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
≥ 12000	67.2	68.7	68.7	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 10000	74.1	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
≥ 9000	75.4	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 8000	77.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 7000	78.7	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 6000	80.0	81.6	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 5000	81.3	83.1	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 4500	82.1	84.1	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 4000	84.1	86.2	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 3500	84.8	87.0	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 3000	85.4	87.7	88.2	88.3	88.4	88.4	88.4	88.4	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5
≥ 2500	85.7	88.4	89.0	89.2	89.7	89.7	89.7	89.7	89.7	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 2000	86.1	89.2	89.9	90.1	90.6	90.6	90.6	90.7	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1800	86.1	89.2	89.9	90.1	90.6	90.7	90.9	91.0	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 1500	86.2	90.1	91.0	91.2	91.8	92.2	92.4	92.5	92.9	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 1200	86.4	90.3	91.3	91.5	92.1	92.5	93.0	93.5	94.0	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 1000	86.6	90.6	91.6	91.9	92.8	93.2	93.8	94.5	95.0	95.9	95.9	95.9	95.9	96.1	96.1	96.1
≥ 900	87.0	91.0	92.3	92.5	93.4	94.0	94.5	95.5	96.0	96.9	96.9	96.9	96.9	97.1	97.1	97.1
≥ 800	87.2	91.2	92.5	92.8	93.6	94.2	94.9	95.9	96.3	97.2	97.2	97.2	97.2	97.4	97.4	97.4
≥ 700	87.2	91.3	92.8	93.0	93.9	94.5	95.5	96.8	97.2	98.3	98.3	98.3	98.3	98.6	98.6	98.6
≥ 600	87.2	91.3	92.8	93.1	94.1	94.9	95.9	97.1	97.5	98.7	98.7	98.7	98.7	98.9	98.9	98.9
≥ 500	87.3	91.4	92.9	93.2	94.4	95.2	96.2	97.4	97.9	99.0	99.1	99.1	99.1	99.3	99.3	99.3
≥ 400	87.3	91.6	93.3	93.6	94.9	95.7	96.7	97.9	98.4	99.6	99.7	99.7	99.7	99.9	99.9	99.9
≥ 300	87.3	91.6	93.3	93.6	94.9	95.7	96.8	98.0	98.6	99.7	99.8	99.8	99.8	100.0	100.0	100.0
≥ 200	87.3	91.6	93.3	93.6	94.9	95.7	96.8	98.0	98.6	99.7	99.8	99.8	99.8	100.0	100.0	100.0
≥ 100	87.3	91.6	93.3	93.6	94.9	95.7	96.8	98.0	98.6	99.7	99.8	99.8	99.8	100.0	100.0	100.0
≥ 0	87.3	91.6	93.3	93.6	94.9	95.7	96.8	98.0	98.6	99.7	99.8	99.8	99.8	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 897

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-87

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥8	≥6	≥4	≥3	≥2	≥1	≥1/2	≥1/4	≥1/8	≥1/16	≥1/32	≥1/64	≥1/128	≥1/256	≥1/512
NO CEILING	56.3	56.3	56.3	56.3	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
≥20000	63.4	63.8	63.8	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥18000	63.9	64.2	64.2	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
≥16000	63.9	64.2	64.2	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
≥14000	65.4	65.8	65.8	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥12000	68.7	68.3	68.3	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
≥10000	75.7	76.0	76.0	76.1	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥9000	76.1	76.5	76.5	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥8000	78.6	78.9	78.9	79.0	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥7000	79.7	80.0	80.0	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥6000	80.4	80.9	81.0	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥5000	82.1	82.8	82.9	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥4500	82.7	83.8	83.9	84.1	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥4000	84.5	85.7	85.8	86.0	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥3500	85.3	86.5	86.6	86.7	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥3000	85.8	87.3	87.7	88.1	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥2500	86.6	88.2	88.7	89.1	89.9	89.9	90.0	90.0	90.0	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥2000	87.3	89.3	89.9	90.3	91.2	91.4	91.5	91.5	91.5	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥1800	87.4	89.5	90.1	90.5	91.4	91.8	91.9	91.9	91.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥1600	87.6	89.9	90.4	91.4	92.5	92.9	93.2	93.3	93.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥1400	87.6	89.9	90.4	91.4	92.6	93.0	93.5	94.1	94.2	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥1200	87.7	90.0	90.5	91.5	92.8	93.1	93.6	94.3	94.5	95.5	95.7	95.7	95.8	95.8	95.8	95.8
≥1000	88.0	90.4	91.0	92.1	93.5	93.9	94.4	95.2	95.4	96.4	96.5	96.5	96.5	96.7	96.7	96.7
≥900	88.5	91.0	91.8	92.9	94.3	94.6	95.2	96.0	96.2	97.2	97.3	97.3	97.4	97.4	97.4	97.4
≥800	88.5	91.3	92.3	93.4	95.2	95.5	96.1	96.9	97.2	98.2	98.3	98.3	98.4	98.4	98.4	98.4
≥700	88.5	91.3	92.4	93.8	95.5	95.9	96.8	97.5	97.9	99.2	99.3	99.3	99.6	99.6	99.6	99.6
≥600	88.6	91.5	92.9	94.2	96.0	96.3	97.2	98.0	98.3	99.7	99.8	99.8	100.0	100.0	100.0	100.0
≥500	88.6	91.5	92.9	94.2	96.0	96.3	97.2	98.0	98.3	99.7	99.8	99.8	100.0	100.0	100.0	100.0
≥400	88.6	91.5	92.9	94.2	96.0	96.3	97.2	98.0	98.3	99.7	99.8	99.8	100.0	100.0	100.0	100.0
≥300	88.6	91.5	92.9	94.2	96.0	96.3	97.2	98.0	98.3	99.7	99.8	99.8	100.0	100.0	100.0	100.0
≥200	88.6	91.5	92.9	94.2	96.0	96.3	97.2	98.0	98.3	99.7	99.8	99.8	100.0	100.0	100.0	100.0
≥100	88.6	91.5	92.9	94.2	96.0	96.3	97.2	98.0	98.3	99.7	99.8	99.8	100.0	100.0	100.0	100.0
≥0	88.6	91.5	92.9	94.2	96.0	96.3	97.2	98.0	98.3	99.7	99.8	99.8	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 897

USAF ETAC FORM 10-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL
DATA

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1	≥ 0
NO CEILING	52.5	52.8	52.9	53.0	53.1	53.1	53.1	53.1	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.3
≥ 20000	59.7	60.3	60.1	60.2	60.3	60.3	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.5
≥ 18000	60.1	60.4	60.6	60.7	60.8	60.8	60.8	60.8	60.9	60.9	60.9	60.9	60.9	60.9	60.9	61.0
≥ 16000	60.3	60.6	60.7	60.9	60.9	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.1	61.1
≥ 14000	60.1	62.4	62.5	62.6	62.7	62.7	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.9
≥ 12000	66.7	67.0	67.1	67.2	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.5	67.5	67.6
≥ 10000	73.8	74.2	74.3	74.5	74.6	74.6	74.6	74.6	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.8
≥ 9000	75.4	75.8	75.9	76.1	76.2	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.4	76.4	76.5
≥ 8000	78.0	78.5	78.6	78.8	78.9	78.9	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.1	79.1	79.2
≥ 7000	79.1	79.6	79.8	79.9	80.0	80.1	80.1	80.1	80.1	80.2	80.2	80.2	80.2	80.3	80.3	80.4
≥ 6000	79.9	80.5	80.7	80.9	81.0	81.1	81.1	81.1	81.1	81.2	81.2	81.2	81.2	81.3	81.3	81.3
≥ 5000	81.4	82.1	82.4	82.5	82.7	82.8	82.8	82.8	82.8	82.9	82.9	82.9	83.0	83.0	83.0	83.1
≥ 4500	82.4	83.2	83.4	83.6	83.8	83.9	83.9	83.9	83.9	84.0	84.0	84.0	84.1	84.1	84.1	84.2
≥ 4000	84.3	85.2	85.5	85.7	86.0	86.2	86.2	86.2	86.2	86.3	86.3	86.3	86.4	86.4	86.4	86.5
≥ 3500	84.8	85.8	86.3	86.5	86.8	87.0	87.0	87.1	87.1	87.2	87.2	87.2	87.3	87.3	87.3	87.4
≥ 3000	85.5	86.7	87.3	87.5	88.0	88.2	88.2	88.3	88.3	88.4	88.4	88.4	88.5	88.5	88.5	88.6
≥ 2500	85.9	87.4	88.1	88.3	88.9	89.1	89.2	89.2	89.3	89.4	89.4	89.4	89.5	89.5	89.5	89.6
≥ 2000	86.3	88.1	88.9	89.2	89.9	90.2	90.3	90.4	90.5	90.7	90.7	90.7	90.8	90.8	90.8	90.9
≥ 1800	86.4	88.3	89.1	89.4	90.1	90.4	90.6	90.7	90.7	91.0	91.0	91.0	91.1	91.1	91.1	91.2
≥ 1500	86.6	88.8	89.7	90.2	91.2	91.5	91.8	92.1	92.3	92.7	92.8	92.8	92.9	92.9	92.9	93.0
≥ 1200	86.9	89.2	90.1	90.7	91.7	92.1	92.6	93.2	93.4	94.0	94.1	94.1	94.3	94.3	94.3	94.4
≥ 1000	87.1	89.6	90.5	91.1	92.2	92.7	93.2	93.9	94.3	95.2	95.4	95.4	95.6	95.6	95.6	95.7
≥ 900	87.2	89.8	90.7	91.4	92.5	93.1	93.7	94.4	94.8	95.8	96.0	96.0	96.2	96.2	96.3	96.4
≥ 800	87.4	90.0	91.0	91.7	92.9	93.4	94.1	94.8	95.2	96.2	96.5	96.5	96.7	96.8	96.8	96.9
≥ 700	87.4	90.2	91.3	92.0	93.2	93.9	94.6	95.4	95.8	96.9	97.2	97.2	97.4	97.5	97.6	97.7
≥ 600	87.5	90.4	91.6	92.4	93.7	94.4	95.2	96.1	96.5	97.8	98.1	98.1	98.3	98.4	98.5	98.6
≥ 500	87.6	90.5	91.7	92.5	93.9	94.6	95.4	96.3	96.8	98.1	98.5	98.5	98.7	98.8	98.9	99.1
≥ 400	87.6	90.6	91.9	92.7	94.1	94.9	95.7	96.6	97.1	98.4	98.8	98.9	99.1	99.2	99.3	99.4
≥ 300	87.6	90.7	92.0	92.8	94.2	95.1	95.9	96.9	97.4	98.7	99.2	99.2	99.4	99.6	99.7	99.8
≥ 200	87.6	90.7	92.0	92.9	94.3	95.2	96.0	97.0	97.5	98.9	99.3	99.3	99.6	99.7	99.8	100.0
≥ 100	87.6	90.7	92.0	92.9	94.3	95.2	96.1	97.0	97.5	98.9	99.3	99.4	99.7	99.8	99.9	100.0
≥ 0	87.6	90.7	92.0	92.9	94.3	95.2	96.1	97.0	97.5	98.9	99.3	99.4	99.7	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 7193

USAF ETAC FORM 11-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

73-87

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2000-2000

CEILING FEET		VISIBILITY STATUTE MILES															
		20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
20000	1	44.3	46.0	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.2	46.2	46.5	46.5	46.7
	2	52.5	54.2	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.5	54.5	54.7	54.7	54.9
18000	1	52.5	54.2	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.5	54.5	54.7	54.7	54.9
	2	52.5	54.2	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.5	54.5	54.7	54.7	54.9
16000	1	53.1	54.8	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.2	55.2	55.4	55.4	55.6
	2	56.6	58.3	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.8	58.8	59.0	59.0	59.2
14000	1	68.7	70.6	71.0	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.3	71.3	71.5	71.5	71.7
	2	69.5	71.4	71.7	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	72.0	72.0	72.3	72.3	72.5
12000	1	72.8	74.7	75.1	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.4	75.4	75.6	75.6	75.8
	2	73.7	75.6	75.9	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.3	76.3	76.6	76.6	76.8
10000	1	74.3	76.5	76.8	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.2	77.2	77.4	77.4	77.6
	2	77.4	79.6	79.9	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.3	80.3	80.5	80.5	80.8
8000	1	78.8	81.0	81.3	81.5	81.6	81.6	81.6	81.7	81.7	81.7	81.7	81.8	81.8	82.0	82.0	82.3
	2	80.6	83.4	84.1	84.3	84.4	84.4	84.4	84.5	84.6	84.6	84.6	84.7	84.7	84.9	84.9	85.2
6000	1	82.0	85.2	85.9	86.3	86.5	86.5	86.5	86.6	86.7	86.7	86.7	86.8	86.8	87.1	87.1	87.2
	2	83.1	86.5	87.5	88.0	88.2	88.2	88.2	88.4	88.7	88.7	88.8	88.8	89.0	89.0	89.0	89.2
4000	1	84.7	88.0	89.0	89.6	89.9	89.9	89.9	90.1	90.6	90.6	90.8	90.8	91.0	91.0	91.0	91.2
	2	84.3	88.4	89.6	90.1	90.4	90.4	90.4	90.6	91.2	91.2	91.3	91.3	91.5	91.5	91.5	91.7
2000	1	84.3	88.5	89.7	90.2	90.5	90.5	90.5	90.8	91.3	91.4	91.5	91.5	91.7	91.7	91.7	91.9
	2	84.5	88.8	90.4	91.2	91.5	91.5	91.6	91.9	92.7	92.9	93.0	93.0	93.2	93.2	93.2	93.4
1000	1	84.5	89.1	91.1	92.0	92.5	92.5	92.6	93.0	93.8	94.0	94.1	94.1	94.3	94.3	94.3	94.5
	2	84.5	89.2	91.2	92.3	92.9	92.9	93.7	93.4	94.2	94.5	94.6	94.6	94.8	94.8	94.8	95.1
800	1	84.5	89.2	91.2	92.3	92.9	92.9	93.1	93.9	94.6	95.1	95.2	95.2	95.4	95.4	95.4	95.6
	2	84.5	89.4	91.3	92.4	93.0	93.1	93.3	94.1	94.8	95.4	95.5	95.5	95.8	95.8	95.8	96.1
600	1	84.5	89.5	91.5	92.8	93.9	94.0	94.2	95.1	95.8	96.3	96.5	96.5	96.8	96.8	96.8	97.0
	2	84.5	89.6	91.6	92.9	94.2	94.3	94.6	95.6	96.3	96.9	97.0	97.0	97.3	97.3	97.3	97.7
500	1	85.1	90.1	92.3	93.5	94.8	94.9	95.3	96.6	97.3	97.8	98.0	98.0	98.3	98.3	98.3	98.7
	2	85.1	90.1	92.3	93.5	94.8	94.9	95.4	96.8	97.5	98.1	98.2	98.2	98.5	98.5	98.5	98.9
300	1	85.1	90.1	92.3	93.5	94.8	95.1	95.6	97.0	97.7	98.4	98.5	98.5	98.8	98.8	98.8	99.4
	2	85.1	90.1	92.3	93.5	94.8	95.1	95.6	97.0	98.0	98.7	98.8	98.8	99.1	99.1	99.1	99.7
200	1	85.1	90.1	92.3	93.5	94.8	95.1	95.6	97.0	98.0	98.7	98.8	98.8	99.1	99.1	99.1	99.7
	2	85.1	90.1	92.3	93.5	94.8	95.1	95.6	97.0	98.0	98.7	98.8	98.8	99.1	99.1	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

707755 MALMSTROM AFB MT

73-87

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

600-2800

CEILING FEET	VISIBILITY STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1000	45.5	46.2	46.2	46.3	46.3	46.3	46.3	46.5	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
2000	53.9	54.6	54.6	54.7	54.7	54.7	54.7	54.8	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9
3000	54.2	54.9	54.9	55.1	55.1	55.1	55.1	55.2	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3
4000	54.2	54.9	54.9	55.1	55.1	55.1	55.1	55.2	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3
5000	55.3	56.0	56.0	56.1	56.1	56.1	56.1	56.2	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.3
6000	58.7	58.7	58.7	58.8	58.8	58.8	58.8	58.9	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0
7000	68.2	69.2	69.2	69.4	69.4	69.4	69.4	69.5	69.5	69.6	69.6	69.6	69.6	69.6	69.6	69.6
8000	69.2	70.3	70.3	70.4	70.5	70.5	70.5	70.6	70.6	70.8	70.8	70.8	70.8	70.8	70.8	70.8
9000	73.4	74.7	74.7	74.8	74.9	74.9	74.9	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2
10000	74.4	75.8	75.8	75.9	76.0	76.0	76.0	76.1	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2
11000	76.1	77.5	77.5	77.6	77.7	77.7	77.7	77.8	77.8	78.0	78.0	78.0	78.0	78.0	78.0	78.0
12000	78.3	79.7	79.8	80.0	80.1	80.1	80.1	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3
13000	79.9	81.4	81.5	81.7	81.8	81.8	81.8	81.9	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0
14000	82.6	84.1	84.3	84.5	84.6	84.6	84.6	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8
15000	83.1	84.8	85.1	85.3	85.4	85.6	85.7	85.8	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9
16000	84.3	86.5	86.7	86.9	87.0	87.3	87.4	87.5	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6
17000	84.5	87.1	87.5	87.8	88.0	88.5	88.6	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8
18000	85.1	88.0	88.6	88.9	89.0	89.6	89.8	89.9	89.9	90.1	90.1	90.1	90.1	90.1	90.1	90.1
19000	85.2	88.1	88.7	89.0	89.1	89.7	89.9	90.0	90.1	90.3	90.3	90.3	90.3	90.3	90.3	90.3
20000	85.8	88.9	89.9	90.2	90.9	91.4	91.7	91.9	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4
21000	86.5	89.7	90.9	91.4	92.4	92.9	93.3	93.7	93.9	94.2	94.3	94.3	94.3	94.3	94.3	94.3
22000	86.7	89.9	91.1	91.6	92.8	93.3	93.8	94.2	94.5	95.4	95.6	95.6	95.7	95.7	95.7	95.7
23000	86.7	89.9	91.1	91.7	92.9	93.4	93.9	94.3	94.6	95.6	95.8	95.8	95.9	95.9	95.9	95.9
24000	86.9	90.1	91.6	92.3	93.5	94.1	94.5	94.9	95.4	96.5	96.7	96.7	96.8	96.8	96.8	96.8
25000	86.9	90.2	91.7	92.6	93.9	94.4	94.8	95.4	95.8	97.2	97.4	97.4	97.5	97.5	97.5	97.5
26000	86.9	90.2	91.7	92.6	93.9	94.4	94.8	95.4	96.2	97.7	98.0	98.0	98.2	98.2	98.3	98.3
27000	86.9	90.2	91.7	92.6	93.9	94.4	94.8	95.4	96.6	98.5	98.7	98.7	98.9	98.9	99.0	99.0
28000	86.9	90.2	91.7	92.6	93.9	94.4	94.8	95.4	96.7	98.6	98.8	98.8	99.1	99.1	99.2	99.2
29000	86.9	90.2	91.7	92.6	93.9	94.4	94.8	95.4	96.7	98.6	98.8	98.8	99.1	99.1	99.2	99.2
30000	87.7	90.3	91.8	92.7	94.0	94.5	94.9	96.1	96.9	98.8	99.0	99.0	99.4	99.4	99.5	99.5
31000	87.0	90.3	91.8	92.7	94.0	94.5	94.9	96.1	96.9	98.8	99.1	99.1	99.5	99.5	99.7	99.7
32000	87.0	90.3	91.8	92.7	94.0	94.5	94.9	96.1	96.9	98.8	99.1	99.1	99.5	99.5	99.7	99.7
33000	87.0	90.3	91.8	92.7	94.0	94.5	94.9	96.1	96.9	98.8	99.1	99.1	99.5	99.5	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

73-87

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

9900-1100

CEILING FEET	VISIBILITY: STATUTE MILES															
	≥10	≥8	≥6	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
≥2000	38.7	38.6	38.7	38.8	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
≥1800	47.1	47.7	47.8	48.0	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥1600	48.1	48.7	48.8	48.9	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
≥1400	48.6	49.2	49.4	49.5	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
≥1200	51.6	52.3	52.4	52.5	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
≥1000	58.1	58.7	58.8	58.9	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥900	68.5	69.6	69.7	69.8	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥800	70.4	71.6	71.8	71.9	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥700	76.6	77.8	78.1	78.3	79.4	79.4	79.4	79.4	79.4	79.4	79.5	79.5	79.5	79.5	79.5	79.5
≥600	77.5	78.8	79.1	79.4	80.4	80.4	80.4	80.4	80.4	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥500	79.7	80.5	80.8	81.1	82.2	82.2	82.2	82.4	82.4	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥400	79.9	81.6	81.8	82.3	83.3	83.3	83.3	83.5	83.8	83.8	83.9	83.9	83.9	83.9	83.9	83.9
≥300	80.4	82.3	82.6	83.0	84.2	84.2	84.4	84.6	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥200	82.4	84.6	84.9	85.5	86.8	86.8	87.0	87.2	87.2	87.3	87.3	87.4	87.4	87.4	87.4	87.4
≥100	82.9	85.2	85.6	86.1	87.5	87.5	87.7	88.0	88.0	88.1	88.1	88.2	88.2	88.2	88.2	88.2
≥50	83.1	85.5	86.2	86.8	88.2	88.2	88.5	88.7	88.7	88.8	88.8	88.9	88.9	88.9	88.9	88.9
≥20	83.5	86.3	87.2	87.8	89.5	89.5	89.8	90.1	90.2	90.3	90.3	90.4	90.4	90.4	90.4	90.5
≥10	83.9	86.9	88.0	88.6	90.3	90.3	90.4	91.1	91.5	91.6	91.6	91.7	91.7	91.7	91.7	91.8
≥5	84.0	87.3	88.4	89.0	90.8	90.8	91.2	91.5	91.9	92.0	92.0	92.2	92.2	92.2	92.2	92.3
≥2	84.2	88.7	89.7	89.9	91.6	91.8	92.4	93.3	93.8	94.0	94.1	94.2	94.2	94.2	94.2	94.3
≥1	84.2	88.2	89.2	90.1	91.9	92.2	93.2	94.1	94.5	94.7	94.8	94.9	94.9	94.9	94.9	95.1
≥0.5	84.3	88.6	89.7	90.5	92.4	92.6	93.7	94.5	95.1	95.3	95.4	95.5	95.6	95.6	95.7	95.8
≥0.2	84.3	88.7	89.8	90.6	92.5	92.7	93.8	94.7	95.3	95.5	95.6	95.7	95.8	95.8	95.9	96.0
≥0.1	84.4	88.9	90.0	90.9	92.8	93.0	94.2	95.2	95.7	96.1	96.2	96.3	96.5	96.5	96.6	96.7
≥0.05	84.4	88.9	90.0	91.1	93.0	93.2	94.4	95.4	95.9	96.7	96.8	96.9	97.2	97.2	97.3	97.4
≥0.02	84.4	88.9	90.0	91.1	93.1	93.3	94.5	95.6	96.2	97.1	97.2	97.3	97.6	97.6	97.7	97.8
≥0.01	84.4	88.9	90.0	91.1	93.2	93.7	94.9	96.0	96.8	97.6	98.2	98.4	98.7	98.8	98.9	99.0
≥0.005	84.4	88.9	90.0	91.1	93.2	93.7	94.9	96.0	96.8	97.6	98.2	98.4	98.8	98.9	99.0	99.1
≥0.002	84.4	88.9	90.1	91.3	93.4	93.9	95.3	96.3	97.1	98.0	98.5	98.7	99.1	99.2	99.4	99.5
≥0.001	84.4	88.9	90.1	91.3	93.4	93.9	95.3	96.3	97.1	98.0	98.5	98.7	99.1	99.5	99.6	99.7
≥0.0005	84.4	88.9	90.1	91.3	93.4	93.9	95.3	96.3	97.1	98.0	98.5	98.7	99.1	99.5	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

73-87
YEAR

DEC
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1220-1400
TIME

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥.5	≥.3	≥.25	≥.2	≥.15	≥.1	≥0
≥ 20000	43.1	43.5	43.7	43.7	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
≥ 18000	50.1	50.8	50.9	50.9	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
≥ 16000	51.0	51.6	51.7	51.7	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
≥ 14000	51.5	52.2	52.3	52.3	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 12000	53.3	54.0	54.1	54.1	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
≥ 10000	59.7	59.7	59.8	59.8	60.2	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 8000	70.8	71.6	71.8	71.8	72.4	72.4	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 6000	73.1	74.0	74.2	74.2	74.7	74.7	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 4000	77.2	78.1	78.4	78.5	79.1	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 2000	78.2	79.1	79.5	79.6	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 1000	79.5	80.6	81.0	81.1	81.7	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 500	81.2	82.4	82.7	82.8	83.5	83.5	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
≥ 400	82.2	83.7	84.0	84.1	84.8	84.8	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 300	83.9	85.7	86.1	86.5	87.3	87.4	87.6	87.6	87.7	87.7	87.7	88.0	88.0	88.0	88.0	88.0
≥ 250	84.2	86.7	86.5	86.9	88.4	88.5	88.8	88.8	88.9	88.9	88.9	89.1	89.1	89.1	89.1	89.1
≥ 200	84.5	86.6	87.7	87.4	89.0	89.1	89.5	89.5	89.6	89.7	89.7	89.9	89.9	89.9	89.9	89.9
≥ 150	84.8	87.1	87.5	88.3	90.1	90.2	90.6	90.8	90.9	91.1	91.1	91.3	91.3	91.3	91.3	91.3
≥ 100	85.3	87.6	88.1	89.0	90.9	91.0	91.4	91.7	91.8	92.2	92.2	92.4	92.4	92.4	92.4	92.4
≥ 80	85.3	87.7	88.2	89.4	91.2	91.3	91.7	92.0	92.2	92.5	92.5	92.7	92.7	92.7	92.7	92.7
≥ 60	85.4	88.0	88.6	89.8	91.9	92.0	92.6	93.1	93.2	93.8	93.8	94.0	94.0	94.0	94.0	94.0
≥ 40	85.4	88.1	88.7	90.0	92.2	92.3	92.9	93.7	93.9	94.4	94.4	94.6	94.6	94.6	94.6	94.6
≥ 20	85.5	88.3	88.9	90.2	92.4	92.5	93.1	94.0	94.2	95.4	95.4	95.7	96.2	96.3	96.5	96.5
≥ 10	85.6	88.4	89.0	90.3	92.5	92.6	93.2	94.1	94.3	95.5	95.5	95.9	96.5	96.6	96.7	96.7
≥ 5	85.7	88.6	89.2	90.5	92.7	92.8	93.5	94.5	94.7	96.0	96.0	96.5	97.0	97.1	97.2	97.2
≥ 3	85.7	88.6	89.4	90.6	92.8	92.9	93.7	94.6	94.8	96.1	96.1	96.6	97.3	97.4	97.5	97.5
≥ 2	85.8	88.7	89.5	90.8	92.9	93.0	93.8	94.8	95.2	96.7	96.7	97.1	97.8	98.0	98.1	98.1
≥ 1	85.9	88.8	89.6	90.9	93.0	93.1	93.9	95.1	95.4	97.1	97.1	97.5	98.3	98.5	98.6	98.6
≥ .5	85.9	88.8	89.6	90.9	93.0	93.1	93.9	95.1	95.4	97.1	97.2	97.7	98.5	98.8	98.9	98.9
≥ .3	85.9	88.8	89.6	90.9	93.0	93.1	93.9	95.1	95.4	97.1	97.2	97.7	98.5	98.8	98.9	98.9
≥ .25	85.9	88.8	89.6	90.9	93.1	93.2	94.1	95.3	95.6	97.3	97.5	98.1	98.8	99.5	99.6	99.6
≥ .2	85.9	88.8	89.6	90.9	93.1	93.2	94.1	95.3	95.6	97.3	97.5	98.1	98.8	99.5	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

707755
STATION

MALMSTROM AFB MT
STATION NAME

73-87
YEARS

DEC
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ 0
NO CEILING	39.6	39.8	39.8	39.8	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
≥ 20000	48.2	48.6	48.6	48.6	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 18000	48.7	49.1	49.1	49.1	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
≥ 16000	49.4	49.8	49.8	49.8	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
≥ 14000	51.2	51.6	51.6	51.6	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 12000	58.4	58.9	58.9	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 10000	69.0	69.9	69.9	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 9000	70.5	71.4	71.4	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 8000	75.8	77.2	77.3	77.4	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
≥ 7000	77.1	78.7	78.8	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 6000	78.3	80.2	80.3	80.4	80.5	80.5	80.5	80.5	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6
≥ 5000	80.4	82.4	82.5	82.6	82.8	82.8	82.8	82.8	82.8	82.9	82.9	83.1	83.1	83.1	83.1	83.1
≥ 4500	81.2	83.1	83.2	83.3	83.5	83.5	83.5	83.5	83.7	83.8	83.8	83.8	84.0	84.0	84.0	84.0
≥ 4000	83.7	86.1	86.3	86.6	86.8	86.8	86.9	87.0	87.2	87.3	87.3	87.3	87.5	87.5	87.5	87.5
≥ 3500	84.2	86.8	87.1	87.3	87.7	87.7	88.2	88.1	88.3	88.4	88.4	88.4	88.6	88.6	88.6	88.6
≥ 3000	84.6	87.8	88.2	88.4	89.2	89.2	89.6	89.8	90.0	90.2	90.2	90.2	90.4	90.4	90.4	90.4
≥ 2500	84.9	88.4	88.8	89.1	90.2	90.2	90.6	90.9	91.1	91.4	91.4	91.4	91.7	91.7	91.7	91.7
≥ 2000	85.4	89.0	89.6	90.1	91.2	91.2	91.8	92.0	92.3	92.8	92.8	92.8	93.1	93.1	93.1	93.1
≥ 1800	85.4	89.0	89.6	90.1	91.2	91.2	91.8	92.0	92.3	92.8	92.8	92.8	93.1	93.1	93.1	93.1
≥ 1500	85.8	89.5	90.4	91.0	92.0	92.0	92.7	92.9	93.2	93.9	93.9	93.9	94.2	94.2	94.2	94.2
≥ 1200	86.1	89.8	90.9	91.4	92.5	92.6	93.4	93.8	94.1	94.8	95.1	95.1	95.5	95.5	95.5	95.5
≥ 1000	86.6	90.2	91.3	91.9	93.0	93.1	94.0	94.5	94.9	95.9	96.2	96.2	96.8	96.8	96.9	96.9
≥ 900	86.6	90.2	91.3	91.9	93.0	93.1	94.0	94.5	94.9	96.3	96.7	97.2	97.2	97.3	97.3	97.3
≥ 800	86.7	90.4	91.5	92.2	93.2	93.3	94.3	94.8	95.5	96.9	97.2	97.2	97.7	97.7	97.8	97.8
≥ 700	86.7	90.4	91.5	92.2	93.2	93.3	94.3	94.9	95.6	97.2	97.5	97.5	98.1	98.1	98.2	98.2
≥ 600	86.7	90.4	91.5	92.2	93.2	93.3	94.3	94.9	95.6	97.3	97.6	97.6	98.3	98.3	98.4	98.4
≥ 500	86.7	90.4	91.5	92.2	93.3	93.4	94.4	95.1	95.7	97.4	97.7	97.7	98.4	98.4	98.5	98.5
≥ 400	86.7	90.4	91.5	92.2	93.3	93.4	94.4	95.1	95.7	97.4	97.7	97.8	98.5	98.6	98.7	98.7
≥ 300	86.7	90.5	91.6	92.3	93.4	93.5	94.5	95.2	95.8	97.5	98.0	98.1	98.7	98.8	99.0	99.0
≥ 200	86.7	90.5	91.7	92.4	93.5	93.7	94.6	95.3	95.9	97.7	98.3	98.4	99.1	99.2	99.5	99.5
≥ 100	86.7	90.5	91.7	92.4	93.5	93.7	94.6	95.3	95.9	97.7	98.3	98.4	99.1	99.4	99.7	99.7
≥ 0	86.7	90.5	91.7	92.4	93.5	93.7	94.6	95.3	95.9	97.7	98.3	98.4	99.1	99.4	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

73-87
YEAR

DEC
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1977-2000
PERIOD

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .1	≥ .05	≥ .01	≥ .005	≥ .001
NO CEILING ≥ 20000	41.3	41.9	42.2	42.2	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 18000	49.5	57.3	57.5	50.5	57.8	50.8	57.8	50.8	57.8	50.8	57.8	50.8	57.8	50.8	50.8	50.8
≥ 16000	49.9	50.8	51.0	51.0	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
≥ 14000	50.3	51.2	51.4	51.4	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 12000	51.7	52.6	52.8	52.8	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
≥ 10000	55.7	56.6	56.9	57.1	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 9000	67.1	68.4	68.7	68.9	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 8000	69.1	70.4	70.8	71.0	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 7000	74.4	75.7	76.0	76.2	76.5	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 6000	75.5	76.9	77.2	77.4	77.7	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
≥ 5000	76.6	78.2	78.5	78.7	79.0	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 4500	79.2	81.0	81.5	81.8	82.2	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 4000	80.0	81.7	82.3	82.6	82.9	82.9	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 3500	81.9	83.8	84.4	84.7	85.2	85.2	85.4	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥ 3000	83.4	85.5	86.2	86.9	87.3	87.3	87.5	87.5	87.6	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 2500	84.2	86.9	87.8	88.6	89.6	89.6	89.9	89.9	90.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 2000	84.6	87.5	88.5	89.4	90.3	90.3	90.8	90.8	91.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1800	85.7	88.9	90.1	91.1	92.2	92.2	92.6	92.6	92.8	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 1600	85.7	88.9	90.3	91.4	92.5	92.5	92.9	92.9	93.1	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 1400	86.7	90.0	91.5	92.7	93.8	93.8	94.3	94.4	94.6	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 1200	87.0	90.4	92.0	93.2	94.4	94.4	95.1	95.3	95.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1000	87.1	90.6	92.3	93.4	94.6	94.6	95.3	95.8	96.3	97.0	97.3	97.3	97.4	97.4	97.4	97.4
≥ 900	87.1	90.9	92.5	93.7	94.8	94.8	95.5	96.0	96.6	97.2	97.5	97.5	97.6	97.6	97.6	97.6
≥ 800	87.1	90.9	92.5	93.7	95.2	95.2	95.8	96.3	96.9	97.6	98.0	98.0	98.1	98.1	98.1	98.1
≥ 700	87.1	90.9	92.6	93.9	95.6	95.6	96.2	96.8	97.3	98.1	98.4	98.4	98.5	98.5	98.5	98.5
≥ 600	87.1	90.9	92.6	93.9	95.7	95.7	96.5	97.0	97.5	98.4	98.7	98.7	98.8	98.8	98.8	98.8
≥ 500	87.1	90.9	92.7	94.0	95.8	95.8	96.6	97.1	97.6	98.5	98.8	98.8	98.9	98.9	98.9	98.9
≥ 400	87.1	90.9	92.7	94.0	95.8	95.8	96.6	97.2	97.7	98.6	98.9	98.9	99.0	99.0	99.0	99.0
≥ 300	87.1	90.9	92.7	94.0	95.8	95.8	96.6	97.2	98.0	98.8	99.1	99.1	99.2	99.2	99.2	99.2
≥ 200	87.1	90.9	92.7	94.0	95.8	95.8	96.6	97.2	98.0	99.2	99.6	99.6	99.8	99.8	99.9	99.9
≥ 100	87.1	90.9	92.7	94.0	95.8	95.8	96.6	97.2	98.0	99.2	99.6	99.6	99.8	99.8	99.9	99.9
≥ 0	87.1	90.9	92.7	94.0	95.8	95.8	96.6	97.2	98.0	99.2	99.6	99.6	99.8	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 939

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

73-87

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2122-2399

CEILING FEET	VISIBILITY: STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	47.2	48.4	48.5	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.7	48.8	48.8
≥ 20000	55.8	57.7	57.1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.3	57.4	57.4
≥ 18000	55.9	57.1	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.4	57.4	57.5
≥ 16000	56.1	57.3	57.4	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.6	57.6	57.7
≥ 14000	56.6	57.7	57.8	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.1	58.1	58.2
≥ 12000	59.9	61.3	61.4	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.7	61.7	61.8
≥ 10000	69.8	71.6	71.7	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	72.0	72.0	72.2
≥ 9000	70.6	72.5	72.6	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.9	72.9	73.0
≥ 8000	73.8	75.6	75.7	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	76.0	76.0	76.1
≥ 7000	74.7	76.7	76.9	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.2	77.2	77.3
≥ 6000	75.4	77.6	77.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.2	78.2	78.3
≥ 5000	77.8	80.1	80.3	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.8	80.8	80.9
≥ 4500	78.9	81.2	81.4	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.8	81.8	81.9
≥ 4000	81.3	84.6	84.8	85.3	85.3	85.3	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.6	85.6	85.7
≥ 3500	82.8	86.5	86.9	87.5	87.6	87.6	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.2	88.2	88.3
≥ 3000	84.3	88.4	88.8	89.7	89.8	89.8	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.5	90.5	90.6
≥ 2500	85.1	89.7	90.1	91.2	91.3	91.3	91.6	91.7	91.7	91.7	91.7	91.7	91.7	92.0	92.0	92.2
≥ 2000	85.2	90.0	90.4	91.5	91.6	91.6	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.6	92.6	92.7
≥ 1800	85.2	90.2	90.6	91.7	92.0	92.0	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.8	92.8	92.9
≥ 1500	85.4	90.9	91.5	92.7	93.0	93.0	93.7	93.9	94.0	94.0	94.0	94.0	94.0	94.3	94.3	94.4
≥ 1200	85.4	90.9	91.6	92.8	93.2	93.2	94.0	94.4	94.6	94.6	94.6	94.6	94.6	94.9	94.9	95.1
≥ 1000	85.4	91.0	91.7	92.9	93.5	93.5	94.4	95.4	95.7	95.7	95.8	95.8	95.8	96.1	96.1	96.2
≥ 900	85.4	91.0	91.7	92.9	93.5	93.5	94.4	95.4	95.8	95.8	95.9	95.9	95.9	96.2	96.2	96.3
≥ 800	85.4	91.0	91.7	92.9	93.5	93.5	94.4	95.7	96.1	96.6	96.7	96.7	96.7	97.0	97.0	97.1
≥ 700	85.4	91.0	91.8	93.2	94.0	94.0	94.8	96.1	96.6	97.0	97.1	97.1	97.1	97.4	97.4	97.5
≥ 600	85.4	91.2	92.0	93.5	94.4	94.4	95.3	96.6	97.0	97.4	97.6	97.6	97.6	98.0	98.0	98.1
≥ 500	85.5	91.5	92.5	94.0	95.1	95.3	96.1	97.4	97.8	98.4	98.6	98.6	98.6	98.9	98.9	99.0
≥ 400	85.5	91.6	92.6	94.1	95.2	95.4	96.2	97.6	98.1	98.6	98.8	98.8	98.8	99.1	99.1	99.2
≥ 300	85.5	91.6	92.6	94.1	95.3	95.5	96.5	97.8	98.4	99.2	99.6	99.6	99.6	99.9	99.9	100.0
≥ 200	85.5	91.6	92.6	94.1	95.3	95.5	96.5	97.8	98.4	99.2	99.6	99.6	99.6	99.9	99.9	100.0
≥ 100	85.5	91.6	92.6	94.1	95.3	95.5	96.5	97.8	98.4	99.2	99.6	99.6	99.6	99.9	99.9	100.0
≥ 0	85.5	91.6	92.6	94.1	95.3	95.5	96.5	97.8	98.4	99.2	99.6	99.6	99.6	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

73-87

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

ELEVATION FEET	VISIBILITY - STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
20000	43.2	44.1	44.2	44.2	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.5	44.5	44.5
18000	51.5	52.5	52.6	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.9	52.9	52.9
16000	51.9	52.9	53.0	53.1	53.2	53.2	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.4
14000	52.2	53.2	53.3	53.4	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.7	53.7	53.7
12000	53.6	54.6	54.7	54.7	54.9	54.9	54.9	54.9	54.9	54.9	54.9	55.0	55.0	55.0	55.0	55.0
10000	58.1	59.1	59.2	59.3	59.5	59.5	59.5	59.5	59.5	59.5	59.6	59.6	59.6	59.6	59.6	59.7
8000	68.8	70.1	70.3	70.4	70.6	70.6	70.6	70.6	70.6	70.6	70.7	70.7	70.7	70.7	70.7	70.8
6000	70.3	71.6	71.8	71.9	72.1	72.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.3
4000	74.8	76.2	76.4	76.6	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	77.0	77.0	77.0
2000	75.7	77.3	77.5	77.6	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.1	78.1	78.1	78.1	78.1
0	76.8	78.6	78.8	79.0	79.2	79.3	79.3	79.3	79.3	79.4	79.4	79.4	79.5	79.5	79.5	79.5
18000	79.7	80.8	81.1	81.3	81.6	81.6	81.7	81.7	81.7	81.8	81.8	81.8	81.9	81.9	81.9	81.9
16000	80.1	82.0	82.2	82.5	82.8	82.8	82.9	83.0	83.0	83.0	83.0	83.0	83.1	83.1	83.1	83.1
14000	82.3	84.7	85.0	85.3	85.7	85.7	85.8	85.9	86.0	86.0	86.0	86.1	86.2	86.2	86.2	86.2
12000	83.3	85.8	86.3	86.7	87.2	87.2	87.4	87.5	87.6	87.7	87.7	87.8	87.8	87.8	87.8	87.9
10000	84.2	87.0	87.6	88.0	88.7	88.8	89.0	89.1	89.2	89.3	89.4	89.4	89.5	89.5	89.5	89.6
8000	84.6	87.8	88.4	89.0	89.8	89.9	90.1	90.3	90.5	90.6	90.7	90.7	90.8	90.8	90.8	90.9
6000	85.1	88.5	89.2	89.9	90.7	90.8	91.2	91.4	91.6	91.8	91.8	91.9	92.0	92.0	92.0	92.0
4000	85.1	88.6	89.4	90.1	90.9	91.0	91.4	91.6	91.9	92.1	92.1	92.1	92.2	92.2	92.2	92.3
2000	85.5	89.2	90.2	91.0	92.0	92.1	92.6	93.0	93.3	93.6	93.6	93.7	93.8	93.8	93.8	93.8
0	85.7	89.5	90.7	91.6	92.6	92.8	93.4	93.9	94.2	94.6	94.7	94.8	94.9	94.9	94.9	94.9
18000	85.9	89.8	91.0	91.9	93.0	93.1	93.8	94.5	94.9	95.6	95.7	95.8	96.0	96.0	96.1	96.1
16000	85.9	89.9	91.0	92.0	93.1	93.3	93.9	94.7	95.1	95.8	96.0	96.1	96.3	96.3	96.4	96.4
14000	86.0	90.0	91.3	92.3	93.5	93.6	94.4	95.1	95.6	96.5	96.7	96.7	97.0	97.0	97.1	97.1
12000	86.0	90.1	91.4	92.5	93.8	94.0	94.7	95.5	96.0	97.0	97.2	97.3	97.6	97.6	97.7	97.7
10000	86.7	90.1	91.4	92.6	94.0	94.1	94.9	95.8	96.3	97.4	97.6	97.7	98.0	98.0	98.1	98.2
8000	86.1	90.2	91.6	92.7	94.2	94.4	95.2	96.2	96.8	98.0	98.2	98.3	98.7	98.7	98.8	98.8
6000	86.1	90.3	91.6	92.8	94.2	94.4	95.2	96.3	96.9	98.1	98.3	98.4	98.8	98.9	99.0	99.0
4000	86.1	90.3	91.7	92.8	94.3	94.5	95.3	96.3	97.0	98.2	98.5	98.6	99.0	99.0	99.1	99.2
2000	86.1	90.3	91.7	92.8	94.3	94.6	95.4	96.4	97.1	98.5	98.8	98.9	99.3	99.4	99.5	99.5
0	86.1	90.3	91.7	92.8	94.4	94.6	95.4	96.5	97.1	98.5	98.8	98.9	99.3	99.5	99.6	99.7

TOTAL NUMBER OF OBSERVATIONS 7440

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

73-83
YEAR

ALL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 1/512
NO CEILING	52.7	53.0	53.1	53.2	53.2	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.4
≥ 20000	67.2	60.6	67.7	67.8	67.9	67.9	67.9	60.9	60.9	61.0	61.0	61.0	61.0	61.0	61.0	61.2
≥ 18000	67.6	61.0	61.1	61.2	61.2	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.4	61.4
≥ 16000	67.8	61.2	61.3	61.4	61.4	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.6
≥ 14000	61.9	62.3	62.4	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.7	62.7	62.7	62.7	62.7	62.7
≥ 12000	66.3	66.4	66.5	66.6	66.6	66.6	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.8	66.8	66.8
≥ 10000	72.9	73.4	73.5	73.6	73.7	73.7	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.9	73.9
≥ 9000	74.7	74.5	74.7	74.8	74.9	74.9	74.9	74.9	74.9	75.0	75.0	75.0	75.0	75.0	75.0	75.0
≥ 8000	77.2	77.8	77.9	78.1	78.2	78.2	78.2	78.2	78.2	78.3	78.3	78.3	78.3	78.3	78.3	78.4
≥ 7000	78.1	78.7	78.9	79.0	79.1	79.2	79.2	79.2	79.2	79.3	79.3	79.3	79.3	79.3	79.3	79.4
≥ 6000	79.2	79.9	80.1	80.2	80.3	80.4	80.4	80.4	80.4	80.5	80.5	80.5	80.5	80.5	80.5	80.6
≥ 5000	82.2	82.9	83.1	83.3	83.4	83.5	83.5	83.5	83.5	83.6	83.6	83.6	83.6	83.6	83.6	83.7
≥ 4500	83.6	84.4	84.6	84.8	84.9	85.0	85.0	85.0	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.2
≥ 4000	85.8	86.8	87.1	87.3	87.5	87.6	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.8	87.8	87.8
≥ 3500	86.9	88.0	88.4	88.7	88.9	89.0	89.1	89.1	89.1	89.2	89.2	89.2	89.2	89.3	89.3	89.3
≥ 3000	87.7	89.1	89.6	89.9	90.3	90.3	90.5	90.5	90.6	90.6	90.6	90.6	90.7	90.7	90.7	90.8
≥ 2500	88.4	90.0	90.6	91.0	91.4	91.5	91.7	91.8	91.9	91.9	91.9	91.9	91.9	91.9	92.0	92.0
≥ 2000	89.3	90.8	91.4	91.9	92.4	92.5	92.7	92.9	92.9	93.0	93.1	93.1	93.1	93.1	93.2	93.2
≥ 1800	89.1	91.0	91.6	92.1	92.6	92.8	93.1	93.1	93.2	93.3	93.3	93.3	93.4	93.4	93.4	93.4
≥ 1500	89.6	91.6	92.4	92.9	93.5	93.7	94.0	94.2	94.3	94.5	94.5	94.5	94.6	94.6	94.6	94.7
≥ 1200	89.9	92.1	92.9	93.5	94.2	94.4	94.8	95.1	95.2	95.5	95.5	95.5	95.6	95.6	95.6	95.6
≥ 1000	90.1	92.5	93.3	94.0	94.8	95.0	95.5	95.9	96.0	96.4	96.5	96.5	96.5	96.6	96.6	96.6
≥ 900	91.2	92.6	93.5	94.3	95.0	95.3	95.7	96.1	96.3	96.7	96.8	96.8	96.9	96.9	97.0	97.0
≥ 800	90.3	92.7	93.7	94.4	95.3	95.5	96.0	96.5	96.7	97.1	97.2	97.2	97.3	97.3	97.4	97.4
≥ 700	90.4	92.9	93.9	94.7	95.6	95.9	96.4	96.9	97.1	97.5	97.7	97.7	97.8	97.8	97.9	97.9
≥ 600	91.5	93.1	94.1	95.0	95.9	96.2	96.7	97.2	97.5	98.0	98.2	98.2	98.3	98.4	98.4	98.5
≥ 500	91.6	93.2	94.3	95.1	96.1	96.4	97.0	97.6	97.8	98.5	98.6	98.7	98.8	98.9	98.9	99.0
≥ 400	91.6	93.3	94.4	95.3	96.3	96.6	97.2	97.9	98.1	98.7	98.9	99.0	99.2	99.2	99.3	99.3
≥ 300	90.6	93.3	94.5	95.4	96.4	96.7	97.4	98.0	98.3	99.0	99.2	99.2	99.4	99.5	99.5	99.6
≥ 200	90.6	93.3	94.5	95.4	96.4	96.8	97.5	98.1	98.4	99.1	99.3	99.4	99.6	99.6	99.7	99.8
≥ 100	90.6	93.3	94.5	95.4	96.4	96.8	97.5	98.1	98.4	99.1	99.3	99.4	99.6	99.7	99.8	99.9
≥ 0	90.6	93.3	94.5	95.4	96.4	96.8	97.5	98.1	98.4	99.1	99.3	99.4	99.6	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 87690

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

TOTAL SKY COVER

FOR AIRWAYS STATIONS THE SYMBOLS OF CLEAR, SCATTERED,
BROKEN, OVERCAST, & OBLSCURED WERE USED AS INPUT FOR THE
TOTAL SKY COVER.

CLEAR WAS CONVERTED TO 0/10

SCATTERED WAS CONVERTED TO 3/10

BROKEN WAS CONVERTED TO 9/10

OVERCAST WAS CONVERTED TO 10/10

OBLSCURED WAS CONVERTED TO 10/10

SKY COVER

JAN

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JAN	00-02	17.7			24.4						19.7	38.2	6.3	929
	03-05	19.5			22.8						27.4	38.3	6.3	928
	06-08	17.8			26.2						21.6	41.5	6.9	928
	09-11	4.6			25.2						24.4	45.8	7.5	928
	12-14	4.2			22.8						25.4	47.6	7.7	929
	15-17	4.5			22.3						26.5	46.8	7.7	937
	18-20	9.9			23.9						21.7	44.5	7.1	929
	21-23	16.5			21.4						19.6	42.5	6.7	927
TOTALS	10.8				23.6						22.4	43.2	7.0	7428

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

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727755 MALMSTROM AFB MT

74-03

FFD

STATION

STATION NAME

PER: JC

 $\text{HON}^{\oplus}\text{H}$

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
FEB	00-02	9.9			25.1						24.1	41.0	7.0	842
	03-05	10.7			22.1						25.2	42.0	7.1	841
	06-08	5.7			22.6						20.9	41.8	7.5	844
	09-11	3.1			18.0						34.2	44.7	8.1	841
	12-14	3.7			18.5						33.4	44.5	8.0	845
	15-17	2.6			18.1						33.2	46.1	8.1	846
	18-20	7.5			22.5						30.4	39.6	7.4	845
	21-23	10.2			25.5						22.6	41.7	7.0	844
TOTALS		6.7			21.6						29.1	42.7	7.5	6748

FORM
JUL 64

0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

SKY COVER

74-03

MAR

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
MAR	00-02	14.1			24.1						18.3	43.5	6.7	930
	03-05	14.5			21.1						19.8	44.6	6.9	929
	06-08	5.8			27.1						27.1	47.0	7.7	930
	09-11	3.7			27.5						31.7	44.8	7.9	928
	12-14	1.5			19.7						32.1	46.6	8.1	927
	15-17	1.6			16.6						36.8	45.0	8.3	929
	18-20	3.8			27.6						29.2	46.3	7.9	930
	21-23	9.7			28.4						23.0	39.9	6.8	930

FORM 0-9-5 (OL A)
JUL 64

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

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74-83

APR

STATION

STATION NAME

PER SD

WON* 4

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
APP	00-02	16.6			27.9						20.7	34.9	6.2	970
	03-05	11.6			32.8						27.5	35.2	6.3	899
	06-08	6.7			25.6						26.9	43.9	7.3	900
	09-11	4.6			25.4						29.4	41.6	7.5	970
	12-14	2.3			23.9						32.7	41.8	7.8	970
	15-17	1.6			23.6						33.9	41.0	7.9	970
	18-20	3.2			26.4						24.8	45.6	7.6	970
	21-23	12.9			28.1						19.8	39.2	6.5	970
TOTALS		7.4			26.7						25.9	40.0	7.1	7199

USAFETAC

FORM 0-9-5 (OL A)
JUL 64

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

12

SKY COVER

74-23

44 Y

STATION

STAT ON NAME

059 32

— 34 —

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
MAY	00-02	13.3			31.4						20.0	35.4	6.3	927
	03-05	7.9			32.3						22.1	37.8	6.7	929
	06-08	4.4			26.3						26.2	43.0	7.5	930
	09-11	2.6			29.3						28.1	41.1	7.5	930
	12-14	1.9			22.8						34.0	41.3	7.9	932
	15-17	1.6			21.9						39.1	38.4	9.0	930
	18-20	2.5			22.8						36.0	38.7	7.8	937
	21-23	8.6			31.5						23.9	36.0	6.7	929
TOTALS		5.4			27.0						28.7	39.0	7.3	7435

FORM 0-9-5 (OL A)
JUL 64

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

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P

74-93

444

STATION

S'A' ON NAME

Page 26

4. 2. 2. 2.

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JUN	00-02	11.6			41.8						20.1	26.5	5.7	899
	03-05	6.9			39.9						25.2	29.7	6.3	900
	06-08	6.9			34.9						28.9	29.3	6.6	900
	09-11	6.3			32.9						34.4	26.3	6.7	900
	12-14	3.9			32.0						39.7	25.4	7.0	900
	15-17	2.1			30.6						40.3	27.0	7.2	900
	18-20	1.7			31.4						38.3	28.6	7.2	900
	21-23	4.9			35.9						30.6	28.7	6.7	900
					</									

FORM 6-9-5 (OL A)
JUL 64

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SKY COVER

74-83

JUL

STATION

STATION NAME

PER OD

MON*

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9	10		
JUL	00-02	24.5			41.9						19.7	14.5	4.4	930
	03-05	15.6			48.0						21.0	15.5	4.9	937
	06-08	12.5			46.1						27.8	13.5	5.2	930
	09-11	11.7			51.1						24.7	14.7	5.1	937
	12-14	6.2			51.1						37.8	11.9	5.5	937
	15-17	4.2			48.2						31.4	16.2	5.9	930
	18-20	5.9			41.6						36.8	15.7	6.1	930
	21-23	13.5			39.9						37.5	16.0	5.5	937
TOTALS		11.7			46.0						27.7	14.7	5.3	7407

USAFETAC

FORM 0-9-5 (OL A)
JUL 64

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

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727755 MALMSTROM AFB MT

74-23

AUG

STATION

STATION NAME

PERIOD

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MONTH	HOURS (LST.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9	10		
AUG	00-02	24.4			35.5						27.8	19.4	4.9	937
	03-05	16.7			45.1						22.3	15.9	5.7	929
	06-08	6.5			45.6						28.7	19.2	5.9	927
	09-11	4.6			47.6						28.7	19.7	5.9	928
	12-14	2.5			46.1						33.5	17.9	6.2	927
	15-17	1.2			43.1						39.4	17.3	6.5	930
	18-20	3.1			43.3						35.3	18.3	6.3	930
	21-23	16.6			37.0						25.4	21.1	5.5	937
TOTALS		9.5			42.9						29.1	18.6	5.8	7431

SKY COVER

74-93

SEP

STATION

STATION NAME

PER OC

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
SEP	00-02	32.0			39.6						15.9	21.6	4.5	900
	03-05	32.7			32.7						14.3	21.4	4.4	900
	06-08	14.5			35.5						27.6	22.5	5.9	899
	09-11	13.4			37.0						28.3	21.2	5.8	900
	12-14	11.4			35.4						30.6	22.6	6.1	900
	15-17	11.7			35.8						33.6	19.7	6.1	900
	18-20	13.3			38.6						27.6	27.6	5.7	900
	21-23	25.3			35.3						17.8	21.6	4.8	900
TOTALS		19.1			35.1						24.5	21.4	5.4	7199

FORM
JUL 64

0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

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727755 HALMSTROM AFB MT

74-03

201

STATION

STATION NAME

PERIOD

Y. Wang et al.

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
OCT	00-02	26.5			30.1						18.3	25.1	5.1	928
	03-05	25.6			29.0						17.7	27.7	5.2	925
	06-08	8.0			34.7						30.3	27.0	6.5	927
	09-11	4.7			32.8						33.4	29.0	6.9	930
	12-14	3.4			29.9						34.3	32.4	7.2	930
	15-17	4.3			29.6						33.8	32.8	7.2	930
	18-20	9.4			30.2						29.7	30.8	6.7	930
	21-23	19.4			31.4						20.0	29.2	5.7	929
TOTALS	12.7				31.0						27.2	29.2	6.3	7429

FORM 0-9-5 (OL A)
JUL 64

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

SKY COVER

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MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9	10		
NOV	00-02	22.3			26.6						18.1	33.7	5.7	897
	03-05	20.7			26.1						19.8	33.4	5.9	895
	06-08	10.6			25.1						30.9	33.4	6.9	896
	09-11	6.9			26.5						32.5	34.1	7.1	898
	12-14	5.4			29.9						31.7	34.8	7.1	897
	15-17	6.7			29.5						30.0	34.5	7.0	899
	18-20	11.3			27.4						24.2	35.1	6.7	897
	21-23	20.4			24.3						27.6	34.6	6.7	896
TOTALS		13.7			26.8						26.1	34.1	6.6	7175

FORM
JUL 64

FORM 0-9-5 (OL A)
JUN 64

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

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73-82

DEC

STATION

STATION NAME

PERIOD

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FORM 0-9-5 (OL A)
JUL 64

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

727755 MALMSTROM AFB MT

73-83

ALL

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
JAN	ALL	17.8			23.6						22.4	43.2	7.7	7428
FEB		6.7			21.6						29.1	42.7	7.5	6748
MAR		6.8			21.4						27.3	44.6	7.5	7433
APR		7.4			26.7						25.9	40.0	7.1	7199
MAY		5.4			27.0						28.7	39.0	7.3	7435
JUN		5.5			34.8						32.1	27.6	6.7	7199
JUL		11.7			46.0						27.7	14.7	5.3	7440
AUG		9.5			42.9						29.1	18.6	5.8	7431
SEP		19.1			35.1						24.5	21.4	5.4	7199
OCT		12.7			31.0						27.2	29.2	6.3	7429
NOV		13.0			26.8						26.1	34.1	6.6	7175
DEC		8.3			24.0						24.8	42.9	7.2	7439
TOTALS		9.7			37.1						27.1	33.2	6.6	87555

USAFETAC

FORM
JUL 64 0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART E PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentations follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviations, and total number of observations in three separate tables as follows:
 - a. Daily maximum temperatures
 - b. Daily minimum temperatures
 - c. Daily mean temperatures

NOTE: Beginning in January 1964, daily maximum and minimum temperatures are routinely selected from hourly observations recorded on surface observing forms or from automated data collections for all Air Force operated stations. For those stations observing less than 24 hours per day, and where maximum and minimum temperatures are required but not recorded, these are also selected from hourly data from as early as January 1949 and later. Please refer to notations on summary pages and Station History for further information on reporting practices of individual stations.

2. Extreme values - derived from daily observations with the extreme value selected for each year and month of record available. An annual (ALL MONTHS) value is selected when all months for a year have valid extremes. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extremes are prepared:
 - a. Extreme maximum temperature
 - b. Extreme minimum temperature

NOTE: The following symbols are used in the extreme data blocks:

- (1) * indicates the extreme was selected from a month with one or more days missing.
- (2) † indicates the extreme was selected from a month in which hourly temperatures were available for less than 24 hours for at least one day in the month.

* Values for means and standard deviations do not include measurements for incomplete months.

Continued on Reverse

3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The following information is provided:

a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature spread vertically. Also provided for each of the dry-bulb intervals is the percentage of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may be continued on several pages.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares (ΣX^2), sums of values (ΣX), means (\bar{X}), and standard deviations (σ_x). The number of observations used in the computation for each element is also shown.

c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulation by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years combined are presented in the following three tables; DRY-BULB TEMPERATURE, WET-BULB TEMPERATURE, and DEW-POINT TEMPERATURE.
5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.
- a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
- b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC
727755 MALMSTROM AFB MT
STATION STATION NAME

DAILY TEMPERATURES

42-83

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MAXIMUM

TEMP °F.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
105							.1	.2					.0
100							.6	.8					.1
95									.2				.9
90				.1	.2	3.2	20.5	4.1	.6				4.1
85				.2	2.3	17.2	42.9	12.3	.5				9.2
80				2.2	8.9	24.0	66.2	24.1	4.0				16.0
75			.2	4.9	18.5	47.1	82.1	76.3	39.5	11.7	.2		23.0
70		.1	1.1	12.0	32.5	59.6	92.4	89.1	55.0	23.9	1.4		30.9
65	.2	.6	3.7	20.9	49.6	76.3	96.9	94.9	67.9	36.6	4.2		38.0
60	1.0	2.4	9.1	33.8	66.5	88.1	99.1	98.1	79.5	50.8	11.4	1.3	45.4
55	3.9	8.8	19.2	49.3	80.9	95.5	99.8	99.4	87.8	66.0	23.4	6.1	53.6
50	10.5	20.3	32.5	65.3	90.1	99.1	100.0	100.0	92.8	78.8	37.9	16.8	62.2
45	22.6	33.7	48.3	78.5	95.8	99.8			95.9	87.7	53.1	31.5	70.7
40	38.3	51.4	62.5	87.9	98.4	100.0			98.3	92.4	67.4	48.3	78.8
35	51.8	63.7	72.9	93.2	99.6				99.8	96.2	90.6	62.6	85.1
30	60.8	72.6	80.8	97.2	99.9				100.0	98.7	88.0	72.2	89.2
25	67.3	79.9	86.3	99.1	100.0					99.4	90.9	78.2	91.8
20	73.5	84.2	90.5	99.6						99.9	93.2	84.3	93.8
15	78.4	89.3	93.3	99.8						100.0	95.2	88.2	95.3
10	81.7	92.5	96.1	100.0							97.0	90.9	96.5
5	85.4	95.8	97.5								98.0	93.8	97.5
0	89.5	98.4	98.5								99.2	96.7	98.5
-5	93.2	99.7	99.6								99.7	98.3	99.2
-10	96.0	99.9	99.8								100.0	99.4	99.6
-15	98.3	100.0	100.0									99.6	99.8
-20	99.8											99.9	100.0
-25	100.0											100.0	100.0
MEAN	29.5	36.7	41.5	54.2	64.1	71.8	82.3	81.2	69.8	59.3	44.0	35.4	55.8
S.D.	19.105	15.253	15.392	12.612	11.101	9.917	8.424	9.294	12.711	12.721	14.153	15.755	22.115
TOTAL OBS.	1271	1158	1271	1230	1271	1230	1271	1271	1230	1240	1200	1271	14914

USAFETAC FORM 0-21-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC
727755 MALMSTROM AFB MT
STATION

42-83

YEARS

DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MINIMUM

TEMP °F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
70							.5	.3					.1
65					.1	.2	4.2	3.1	.2				.7
60					.6	3.5	20.5	15.0	1.6	.2			3.5
55				.1	3.2	18.5	50.0	43.9	11.2	1.2	.1		10.8
50		.1	.2	1.2	13.6	48.3	84.3	77.8	28.2	7.2	1.3	.2	22.1
45	.3	.7	.7	7.5	34.1	78.9	96.1	95.4	52.5	20.2	4.6	1.3	33.0
40	3.2	3.8	3.9	18.4	60.7	93.6	99.6	99.4	75.8	39.7	11.7	6.0	43.3
35	9.4	9.8	13.2	40.2	84.3	98.9	100.0	100.0	89.3	60.3	24.7	13.8	53.9
33	12.2	14.9	19.9	50.8	91.0	99.4			92.9	68.7	31.5	17.4	58.4
30	18.5	23.1	32.5	66.4	96.1	99.9			96.7	79.0	40.7	24.7	65.0
25	28.9	36.7	52.2	83.3	99.1	100.0			99.8	91.0	58.4	38.0	74.1
20	39.2	51.3	67.2	92.9	99.7				100.0	96.8	72.2	51.6	81.0
15	48.2	60.7	75.8	96.7	99.9					99.0	81.4	63.5	85.5
10	55.5	69.1	81.1	98.7	100.0					99.7	87.2	71.2	88.6
5	61.4	76.4	86.0	99.3							91.2	77.3	91.0
0	69.1	83.9	90.2	99.7						99.8	94.2	83.3	93.3
-5	76.5	89.5	93.2	99.8						100.0	96.5	89.0	95.4
-10	83.5	95.2	96.3	100.0							97.2	93.3	97.2
-15	88.9	98.7	97.9								99.2	95.9	98.4
-20	93.2	99.5	99.1								99.8	98.0	99.1
-25	96.5	99.9	99.7								100.0	99.2	99.6
-30	98.9	100.0	99.9									99.5	99.9
-35	99.8		100.0									99.8	100.0
-40	100.0											99.9	100.0
-45												100.0	100.0
MEAN	10.5	16.9	21.4	32.1	41.5	49.0	54.6	53.7	44.8	36.6	25.1	17.2	33.6
S D	19.131	15.222	14.170	8.691	7.133	5.990	5.634	5.703	7.735	9.026	13.529	16.468	18.756
TOTAL OBS	1271	1158	1271	1230	1271	1230	1271	1271	1230	1240	1200	1271	14914

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC
727755 MALMSTROM AFB MT
STATION

DAILY TEMPERATURES

42-83

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MEAN

TEMP °F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
85							.3	.2					.5
80						.2	2.9	2.4	.2				.5
75					.2	1.9	17.1	15.6	1.7				3.1
70				.1	2.0	12.4	46.5	40.4	10.2	.4			9.5
65				.8	8.9	30.0	74.7	68.4	23.7	3.7			17.8
60			.2	4.6	22.4	53.8	92.8	89.1	44.9	12.9	1.0		27.1
55		.4	1.3	13.2	42.7	80.5	98.3	97.2	64.6	29.0	3.9	.2	36.2
50	1.2	2.5	5.7	27.2	66.4	94.1	100.0	99.6	80.5	46.9	11.1	2.5	45.1
45	4.9	8.4	14.9	45.4	84.7	98.9		100.0	90.5	64.5	21.9	8.8	53.8
40	13.9	20.2	31.3	67.1	95.0	99.8			95.4	81.1	39.6	20.6	63.9
35	25.6	36.2	51.8	83.3	98.4	100.0			98.6	89.8	55.3	34.8	73.0
30	37.8	51.1	65.3	91.9	99.7				100.0	95.8	70.5	49.3	80.2
25	49.7	62.1	74.7	96.2	99.9					98.6	83.0	62.9	85.6
20	58.6	71.2	82.0	98.8	100.0					99.4	88.3	71.8	89.2
15	64.8	79.2	86.5	99.5						99.8	92.7	79.0	91.7
10	72.4	85.8	91.1	99.7						99.9	94.2	84.2	93.9
5	78.0	90.5	94.1	99.8						100.0	96.2	89.4	95.7
0	83.2	93.9	96.1	100.0							97.7	92.8	97.0
-5	87.7	97.6	98.7								98.9	95.4	98.1
-10	91.6	99.3	99.7								99.7	98.0	98.9
-15	95.1	99.9	99.8								100.0	99.0	99.5
-20	97.8	100.0	99.9									99.5	99.8
-25	99.6		100.0									99.7	99.9
-30	100.0											99.9	100.0
-35												100.0	100.0
MEAN	20.1	26.9	31.6	43.3	53.0	61.6	68.8	67.6	57.5	48.1	34.7	26.4	44.9
S D	18.579	14.709	14.273	9.865	8.285	7.148	6.271	6.597	9.456	10.151	13.375	15.546	20.034
TOTAL OBS	1271	1158	1271	1230	1271	1230	1271	1271	1230	1240	1200	1271	14914

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

MAXIMUM TEMPERATURE

FROM DAILY OBSERVATIONS

727755 STATION MALMSTROM AFB MT

42-23

YEARS

WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
42												60	
43	53	58	68	76	81	81	94	93	88	90	65	55	94
44	65	54	57	76	88	54	94	90	89	80	59	55	94
45	55	54	68	71	80	92	99	95	93			53	
46	54	60	74	84	79	88	97	96	92	65	65	57	97
47	49	59	61	78	83	79	100	96	94	77	73	56	100
48	59	55	57	76	93	89	93	95	92	79	57	49	95
49	51	57	57	79	87	92	92	102	88	73	72	5	102
50	48	68	61	72	81	89	95	89	98	78	69	59	98
51	48	63	59	72	85	82	96	96	86	80	61	53	96
52	47	58	61	93	79	97	97	95	89	82	52	5	97
53	63	56	65	70	86	87	102	96	91	83	73	54	102
54	55	66	61	68	87	91	97	94	86	78	69	58	97
55	53	54	61	68	78	88	98	96	92	81	61	53	98
56	57	54	7	74	86	94	95	94	89	76	66	62	95
57	51	55	62	87	84	88	95	96	91	34	57	62	96
58	67	61	58	71	97	91	98	94	91	81	61	6	94
59	63	47	64	73	81	90	97	92	91	74	65	59	97
60	52	52	71	74	88	87	102	93	89	84	59	56	102
61	59	64	64	64	83	96	94	106	83	80	72	52	106
62	63	64	64	86	74	93	97	98	87	86	75	63	98
63	57	65	76	81	85	89	100	97	92	87	64	50	100
64	58	57	69	76	87	98	95	100	86	86	67	43	107
65	56	59	56	73	77	85	91	95	82	79	67	51	95
66	44	53	73	72	87	93	96	97	92	77	64	56	97
67	51	60	63	54	83	93	93	96	97	74	60	51	97
68	63	65	68	82	71	86	94	90	89	78	61	54	94
69	47	42	63	81	84	91	92	105	96	72	63	64	105
70	45	62	56	72	79	92	96	101	83	82	59	54	101
71	53	53	59	71	81	89	96	98	86	84	68	46	98
MEAN													
S.D.													
TOTAL OBS.													

NOTES * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-3 (OLA)

(AT LEAST ONE DAY LESS THAN 24 OBS)

EXTREME VALUES

MAXIMUM TEMPERATURE

FROM DAILY OBSERVATIONS

727755 MALMSTROM AFB MT
STATION STATION NAME

42-33

YEARS

WOLF DEGREES FAHRENHEIT

[illegible]

NOTES * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

(AT LEAST ONE DAY LESS THAN 24 OBS)

MALMSTROM AFB MONTANA REVISED UNIFORM SUMMARY OF
 SURFACE WEATHER OBSERVAT..(U) AIR FORCE ENVIRONMENTAL
 TECHNICAL APPLICATIONS CENTER SCOTT A.. FEB 84
 USAFETAC/DS-84/007 SBI-AD-E850 615 F/G 4/2

46

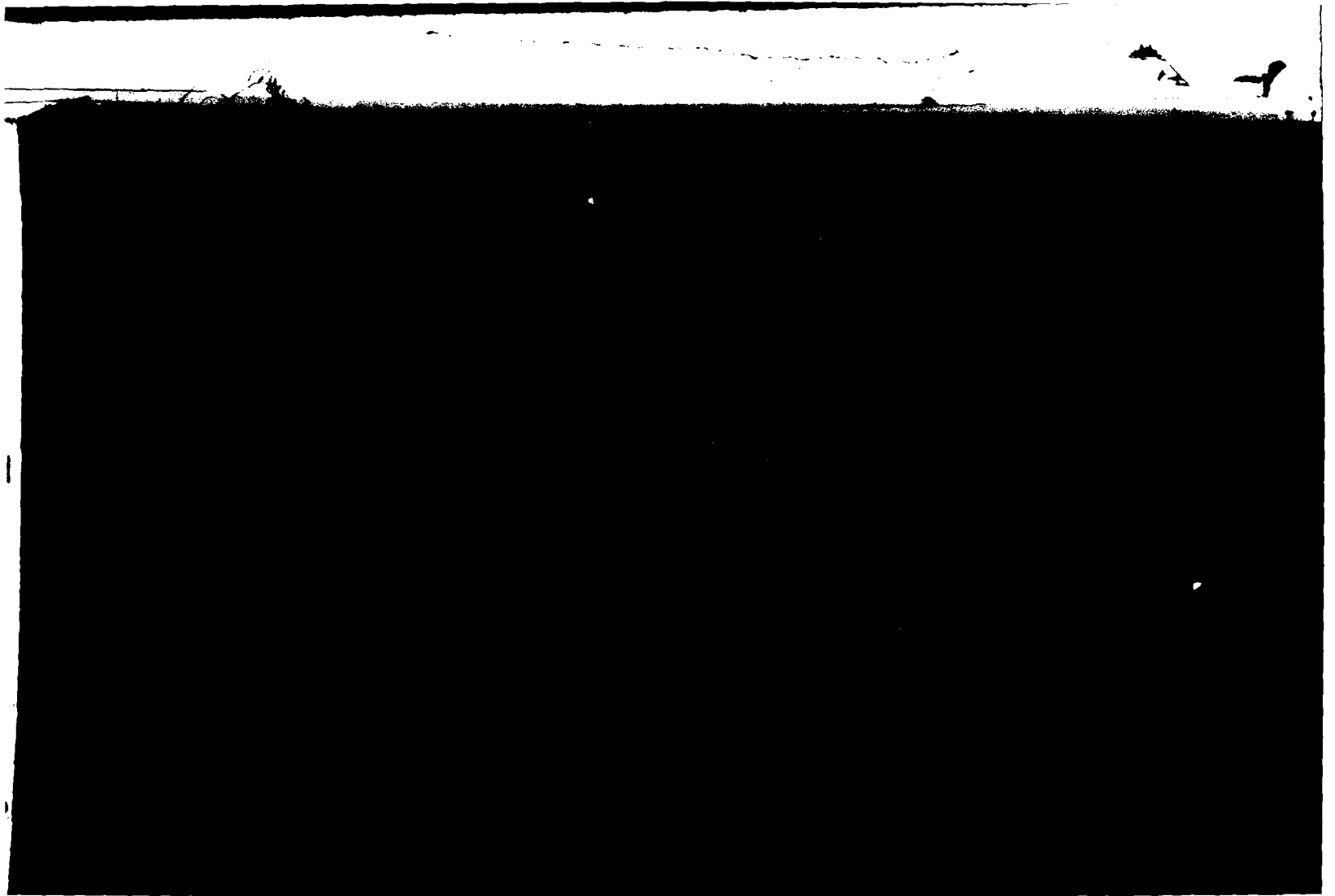
UNCLASSIFIED

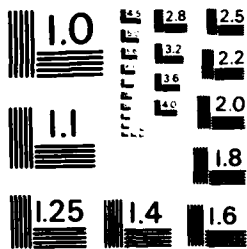
USAFETAC/DS-84/007 SBI-AD-E850 615

F/G 4/2

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MICROCOPY RESOLUTION TEST CHART
 NATIONAL BUREAU OF STANDARDS - 1963-A

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

EXTREME VALUES

MINIMUM TEMPERATURE

FROM DAILY OBSERVATIONS

727755 MALMSTROM AFB MT
STATION

42-43 YEARS

WHOLE DEGREES FAHRENHEIT

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
YEAR													
42												-9	
43	-31	-12	-15	26	24	33	44	42	32	29	10	9	-31
44	7	-7	-17	28	29	37	43	45	28	22	5	-6	-17
45	-4	-14	-21	6	30	35	44	46	27			-5	
46	-9	4	14	22	27	39	48	45	35	14	-11	-12	-17
47	-24	-16	-26	26	26	42	52	45	27	31	-1	-3	-26
48	-7	-14	-19	15	32	46	47	50	34	25	15	-14	-19
49	-29	-14	-3	29	27	34	49	44	31	11	21	-19	-29
50	-36	2	-13	17	37	32	44	40	26	21	-11	-12	-36
51	-23	-5	-31	6	32	32	43	44	28	12	5	-23	-31
52	-24	-13	1	23	38	40	44	41	40	26	7	10	-24
53	-26	13	3	13	25	41	45	49	37	25	16	-10	-26
54	-35	10	-6	-4	14	37	50	45	28	24	12	-3	-35
55	-5	-10	-17	18	30	40	41	48	30	17	-19	-22	-22
56	-20	-24	-13	21	26	45	49	41	34	15	10	-17	-24
57	-32	-15	0	18	38	43	52	44	29	12	17	17	-32
58	15	-3	-2	22	38	44	43	49	36	26	-6	-6	-6
59	-21	-15	20	17	33	43	44	47	28	18	-17	11	-21
60	-4	-19	-19	21	29	43	51	45	36	23	-3	1	-19
61	1	2	8	17	33	45	52	48	28	18	1	-22	-22
62	-37	-18	-14	22	34	33	41	45	34	27	14	-10	-37
63	-27	-14	17	21	31	37	47	44	38	20	-7	-14	-27
64	-15	4	-24	5	39	38	47	41	30	24	-14	-32	-32
65	-19	-12	-20	23	26	31	47	38	23	26	-6	-17	-20
66	-23	-9	-10	13	23	38	45	38	32	20	-7	-15	-23
67	-12	5	-14	4	18	35	40	43	39	26	3	-25	-25
68	-27	-6	16	17	23	38	35	44	33	22	-1	-44	-44
69	-34	-7	-14	20	26	29	44	40	36	18	10	-1	-34
70	-27	1	-16	13	28	32	43	41	27	16	-14	-13	-27
71	-35	-7	-7	17	26	35	39	46	25	-1	-15	-23	-35
MEAN													
S D													
TOTAL OBS													

NOTES * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-60-5 (OEA)

1 (AT LEAST ONE DAY LESS THAN 29 OBS)

EXTREME VALUES

MINIMUM TEMPERATURE

FROM DAILY OBSERVATIONS

~~727755~~ STATION ~~MALMSTROM AFB MT~~ STATION NAME

42-22

YEARS

WHOLE DEGREES FAHRENHEIT

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
72	-36	-15	-5	12	27	34	39	47	27	-5	8	-35	-36
73	-19	-6	13	19	29	37	37	42	33	25	-18	-19	-19
74	-30	-2	1	24	31	32	45	40	26	19	10	-2	-37
75	-15	-29	0	-9	30	42	50	41	33	22	-12	-12	-29
76	-15	-13	-23	23	37	38	44	44	32	13	-1	-2	-27
77	-21	18	5	11	24	40	42	36	33	18	-23	-36	-36
78	-15	-21	-26	21	32	39	45	43	32	24	-16	-26	-26
79	-23	-14	1	12	26	37	49	50	43	17	5	-19	-23
80	-21	-5	-7	28	35	37	41	38	32	24	4	-13	-21
81	5	-19	11	21	31	37	45	42	32	21	8	-17	-19
82	-29	-15	-2	9	30	41	46	46	31	19	-5	-	-29
83	4	10	11	18	24	44	44	47	29	28	-7	-	-
MEAN	-18.4	-7.8	-6.3	16.5	28.7	37.9	44.5	43.8	31.2	19.8	-1.7	-12.0	-25.8
S.D.	12.9671	10.3113	13.317	8.352	5.180	4.377	4.019	3.523	4.522	7.261	11.500	13.494	7.726
TOTAL OBS.	1271	1158	1271	1230	1271	1230	1271	1271	1230	1240	1200	1271	1491

NOTES * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-9 (OLA)

AT LEAST ONE DAY LESS THAN 24 OBS)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AT WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT

74-67

JAN

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0000-2300

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	O.S./W.B.	Dry Bulb	Wet Bulb	Dew Point				
47/57					.7	.1												5	5						
52/51					.1													2	2						
57/49					.7													4	4						
62/47				.3	.2	.1	.1											11	11						
66/45				.3	.8	.7	.2											19	19						
64/43				.2	.4	.2	.2											16	16						
62/41			.3	1.2	.6	.6												25	25						
67/39			.5	1.5	1.5	.7												36	36						
72/37		.3	.2	2.0	1.2													35	35						
77/35		.1	1.4	1.9	.5													37	37						
78/33				1.5	2.7	.4												37	37						
77/31		.5	2.3	1.3	.9													46	46						
77/29	.3	1.3	2.4	1.9														55	55						
77/27			.6	1.6	.3													24	24						
76/25	.5	2.3	2.7	.2														53	53						
74/23			1.4	1.7														22	22						
72/21	.3	1.7	1.4															32	32						
71/19	.3	2.6	1.4	.2														42	42						
78/17	.2	2.6	.6															32	32						
76/15	.2	3.0	1.0															39	39						
74/13			1.2	.3														16	16						
72/11	.2	1.6	.3															20	20						
72/9	.3	3.0	.3															33	33						
67/7	.1	2.0	.1															21	21						
67/5	.3	1.6																18	18						
67/3	.4	1.9																22	22						
77/1	.4	3.9																40	40						
77/-1	1.0	1.3																21	21						
-27/-3	1.0	3.4																41	41						
-47/-5	1.1	1.5																24	24						
-67/-7	1.3	1.0																21	21						
-27/-9	1.9	.3																21	21						
-17/-11	1.6	.3																18	18						
-12/-13	.9																	8	8						
Element (X)	ΣX'		ΣX		Σ		Σ _a		No. Obs.		Mean No. of Hours with Temperature							Total							
Rel. Hum.											≥ 6 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F									
Dry Bulb																									
Wet Bulb																									
Dew Point																									

FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

PSYCHROMETRIC SUMMARY

727755 MALMSIROM AFB MT
STATION STATION NAME

74-97

YEARS

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PAGE 2 ~~SECRET~~

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
14/-15	1.4																	17	15	13	37											
16/-17	.8																	7	7	7	21											
17/-19	.9																	7	7	7	15											
20/-21	.7																	3	3	3	12											
22/-23	.8																	4	4	4	16											
24/-25																					17											
26/-27																					11											
28/-29																					8											
31/-31																					1											
32/-33																					5											
34/-35																					3											
TOTAL	16.2	39	619	514	47.8	1.7	.6	.3										930	979	930												

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JAN
MONTH

SAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JAN 64

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb	Dew Point				
50/ 58																		3	3					
52/ 51					.1													3	3					
51/ 49				.1		.1												3	3					
49/ 47				.2	.4	.1	.2											3	3					
48/ 45			.1	.5	1.0		.3											19	19	1				
46/ 43				.9	.7		.1											12	12	1				
47/ 41			.4	1.1	.4	.4												22	22	7				
47/ 39			.4	2.0	1.5	.2												39	39	17				
39/ 37		.2	1.0	1.5	1.1	.1												36	36	21				
36/ 35			1.1	1.6	1.1													35	35	22				
34/ 33		.1	1.0	1.3	.9													29	29	43				
30/ 31		.4	3.2	2.9	.3													64	64	45				
29/ 29	.3	1.0	2.5	.9														43	43	16				
28/ 27	.2	.9	2.6	.3														37	37	22				
26/ 25	.3	1.6	2.7	.1														44	44	41				
24/ 23	.1	1.0	1.7															26	26	31				
22/ 21	.3	3.0	1.3	.1														44	44	39				
20/ 19	.3	2.6	1.0															36	36	76				
18/ 17	.2	1.8	.9															27	27	33				
16/ 15	.1	1.9	1.2															30	30	49				
14/ 13	.2	1.2	.4															17	17	51				
12/ 11	.2	1.6	.1															18	18	42				
10/ 9	.4	1.0	.5															27	27	43				
8/ 7	.4	2.8	.2															32	32	25				
6/ 5	.4	1.5																18	18	15				
4/ 3	.1	2.6																25	25	23				
2/ 1	.5	3.3																36	36	37				
0/ -1	1.5	1.7																37	37	18				
-2/ -3	.2	2.8																28	28	27				
-4/ -5	1.7	1.6																31	31	24				
-6/ -7	1.4	1.1																23	23	21				
-8/ -9	1.0	.5																14	14	23				
-10/-11	2.3	.2																23	23	24				
-12/-13	1.2																	11	11	26				
Element (X)	Σ X ²		Σ X		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.											≤ 6 F		≤ 32 F		≤ 67 F		≤ 72 F		≤ 80 F		≤ 93 F		Total	
Dry Bulb																								
Wet Bulb																								
Dew Point																								

PSYCHROMETRIC SUMMARY

727755 HALLMSTROM AFB MT
STATION STATION NAME

74-87

YEAR

MINYIN

PAGE 1 ~~2150-0503~~

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
14/-15	.9																	8	9	8	20											
16/-17	.8																	7	7	7	18											
18/-19	1.2																	11	11	11	22											
20/-21	.6																	6	6	6	15											
22/-23	.3																	3	3	3	14											
24/-25																					13											
26/-27	.1																	1	1	1	11											
28/-29																					10											
30/-31																					7											
32/-33																					10											
34/-35																					1											
36/-37																					0											
TOTAL	17.437	422.313	7	1.5	.8	.2												930	937	930	937											

Element (X)	Σ X'	Σ X	X	°X	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3738969	57607	61.981	392	937	≤ 6 F	≤ 22 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	584865	16605	17.987	619	930	19.6	72.7					93
Wet Bulb	837955	18729	15.185	609	930	21.0	81.8					93
Dew Point	291787	5975	6.456	518	930	11.2	91.9					93

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YEARS

JAN
MONTH

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb	Dew Point					
54/ 53																		7	7						
52/ 51							.1											1	1						
51/ 49				.1	.2	.2	.1											6	6						
49/ 47				.1		.5	.4											12	12						
47/ 45			.1	.5	.5		.1											12	12						
44/ 43			.2	1.1	.3													15	15	1					
42/ 41			.1	1.3		.5												18	19	8					
42/ 39			1.1	.9	1.3	.3												33	33	15					
39/ 37			.9	1.5	.6	.1												31	31	19					
36/ 35			1.3	1.9	.6	.1												37	37	33					
34/ 33		.4	1.2	2.8	.6													48	48	17					
32/ 31		.9	1.7	2.8	.1													51	51	52					
30/ 26	.4	1.1	2.4	.6														44	44	24					
28/ 27	.1	1.6	3.4	.2														50	50	73					
26/ 25		1.9	2.7	.1														38	38	68					
24/ 23		1.8	1.6															32	32	51					
22/ 21	.4	1.6	1.1	.1														30	30	43					
21/ 19	.5	3.2	1.9															53	53	39					
18/ 17	.4	1.6	.5															24	24	37					
16/ 15		1.1	1.2															21	21	27					
14/ 13	.3	1.7	.2															21	21	23					
12/ 11	.3	1.1	.1															14	14	28					
10/ 9	.6	2.7	.2															73	33	22					
8/ 7	.5	2.5																28	28	33					
6/ 5	.3	2.0																22	22	26					
4/ 3	.3	3.4																35	35	30					
2/ 1	.4	4.1																42	42	34					
0/ -1	1.6	1.6																37	30	42					
-2/ -3	.5	1.2																16	16	26					
-4/ -5	1.1	.6																16	16	12					
-6/ -7	.9	1.8																25	25	14					
-8/ -9	2.5	.6																29	29	41					
-10/-11	1.7																	16	16	22					
-12/-13	1.3																	12	12	12					
Element (X)	ΣX^2	ΣX				\bar{X}	σ_x	No. Obs.										Mean No. of Hours with Temperature							
Rel. Hum.																		$\leq 6 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	Total	
Dry Bulb																									
Wet Bulb																									
Dew Point																									

PSYCHROMETRIC SUMMARY

YEARS



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Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
14/-15	1.1																		10	13	10	20													
16/-17	.7																		3	3	3	10													
18/-19	1.1																		10	13	10	37													
20/-21	.2																		2	2	2	15													
22/-23	.5																		5	5	5	16													
24/-25	.4																		4	4	4	11													
26/-27																						6													
28/-29																						6													
30/-31																						4													
32/-33																						7													
34/-35																						4													
36/-37																						7													
TOTAL	18.138	721.3	14.3	4.7	1.9	.6	.3												930		930	930													

Element (X)	Z _g ¹	Z _g	Z	° _g	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3806718	58158	62.533.538	930	≤ 6 F	≤ 22 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F		
Dry Bulb	578736	16536	17.887.383	930	17.8	71.6					93	
Wet Bulb	833937	18029	15.185.869	930	20.2	83.7					93	
Dew Point	297658	6108	6.616.828	930	30.6	82.7					93	

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PSYCHROMETRIC SUMMARY

MONTH

PAGE 1 2000-112
HOURS (L. S. T.)

0-26-5 (OLA)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

2

1.

24-83

YEARS

100-443614-10

PAGE 2 ~~SECRET~~
HOURS 11. 2. 4. 7

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2

U.S. AIR FORCE
 AIR FORCE
 AIR FORCE

PSYCHROMETRIC SUMMARY

STATION NAME
 STATION

19-87

YEARS

MONTH

0-30

Address

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
1/-	1.0																																			
1/-11	0.0																																			
1/-17	0.4																																			
1/-19	0.5																																			
1/-17	0.0																																			
1/-19	0.1																																			
1/-21																																				
1/-23																																				
1/-25																																				
1/-27																																				
1/-29																																				
TOTAL	0.333	0.15	0.14	0.10	0.09	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Element (X)	Σx^2	Σx	\bar{x}	s^2	No. Obs.	Mean No. of Hours with Temperature					Total	
						≤ 10 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Hum.	2986115	50745	54.615	292	930							
Dry Bulb	908868	23504	25.319	308	930	0.4	51.2					51.6
Wet Bulb	613839	19171	20.615	236	930	12.2	68.2					80.4
Dew Point	302709	9265	17.015	250	930	26.5	91.3					117.8

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

74-27

YEARS

PAGE 1 1500-17.0
HOURS (L. S. T.)

[illegible]

2
 GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707705 STATION MALMSTROM AFB MT 74-87 YEARS 1 JAN MONTH

PAGE 1 1500-1700 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
-1/-7	.3	.5																																51	3	12	14
-2/-9	1.1	1.1																																11	11	14	25
-3/-11	1.1																																	10	17	13	17
-4/-13	1.1																																	10	13	13	11
-5/-15	.5																																	5	5	5	17
-6/-17	1.1																																	11	1	1	23
-7/-19																																					27
-8/-21	1.1																																	1	1	1	21
-9/-23																																					4
-10/-25																																					1
-11/-27																																					1
-12/-29																																					1
-13/-31																																					1
014L	7.1	32.4	17.2	15.5	1.1	9.8	4.5	1.4	.9	.2																								97	97	97	97
Element (X)	Σ X'		Σ X		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature										Total																
Rel. Hum.	2968227		50721		58.5		18.7		930		50 F		52 F		57 F		73 F		80 F		93 F		Total														
Dry Bulb	275351		22999		29.7		18.1		930		12.7		58.8										97														
Wet Bulb	591703		18783		20.2		15.1		930		13.3		68.7										93														
Dew Point	297837		8874		9.5		15.1		930		26.9		91.3										97														

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YEARS

74-27

JAN
MONTH

PAGE 1 1870-2000
HOURS (L. S. Y.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																											TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point											
68/ 53																			4	4											
67/ 51																			1	1											
66/ 46																			9	9											
65/ 47																			15	15											
64/ 45																			20	20	1										
64/ 43																			21	21	3										
63/ 41																			35	35	11										
62/ 39																			36	36	23										
61/ 37																			44	44	16										
60/ 36																			34	34	36										
59/ 33																			51	51	48										
58/ 31																			73	73	48										
57/ 29																			51	51	63										
56/ 27																			47	47	77										
55/ 25																			28	28	78										
54/ 23																			26	26	48										
53/ 21																			22	22	45										
52/ 19																			33	33	26										
51/ 17																			17	17	28										
50/ 15																			23	23	19										
49/ 13																			24	24	21										
48/ 11																			21	21	26										
47/ 9																			35	35	25										
46/ 7																			27	27	42										
45/ 5																			19	19	30										
44/ 3																			36	36	32										
43/ 1																			21	21	21										
42/ -1																			31	31	29										
41/ -3																			19	19	27										
40/ -5																			24	24	23										
39/ -7																			17	17	18										
38/ -9																			9	9	17										
37/ -11																			13	13	14										
36/ -13																			7	7	9										
Element (X)	Σx'	Σx	Σ	Σ	Σ	No. Obs.	Mean No. of Hours with Temperature																								
Rel. Hum.							≤ 6 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																		
Dry Bulb																															
Wet Bulb																															
Dew Point																															

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

74-87

YEARS

J.P.S.

PAGE 2 1800-2200
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
14/-15	1.7																	1.7	13	12	12														
16/-17	.3																	7	7	7	17														
16/-19	.3																	3	3	3	26														
17/-21	.2																	2	2	2	12														
17/-23	.1																	1	1	1	14														
18/-25																					17														
18/-27																					4														
18/-29																					7														
19/-31	.1																	1	1	1	1														
19/-33																					1														
19/-35																					1														
TOTAL	11.5	35.7	23.1	16.3	9.7	7.4	1.4	.4										929	232	929	929														

Element (X)	Z _h '	Z _h	Z	° _h	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3477880	55437	59.7	3.558	929	≤ 6 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	672918	19287	20.7	17.147	930	15.1	66.7					93
Wet Bulb	490645	16187	17.8	14.094	929	16.3	79.3					93
Dew Point	289662	7626	8.2	15.692	929	28.5	91.4					93

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAO

PSYCHROMETRIC SUMMARY

7-7755 MALMSTROM AFB MT

74-87

240

STATION

STATION NAME

YEARS

MONTH

PAGE 1 71 0-2310
HOURS 11.5.11

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707756 MALMSTROM AFB MT

74-87

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STATION

STATION NAME

YEARS

MONTH

PAGE

All

HOURS (L, S, T.)

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74-83

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STATION

STATION NAME

YEARS

MORE THAN

PAGE 7

ALL

HOURS (L. S. T.)

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0-26-5 (OL A)

33

USAFETAC

PSYCHROMETRIC SUMMARY

YEARS

FFR
MONTM

PAGE 2 2000-0200
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
1/-17	.6																		5	5	5	11										
14/-15	.4																		3	3	3	14										
16/-17	.5																		4	4	4	17										
18/-19	.2																		2	2	2	17										
21/-21	.1																		1	1	1	1										
22/-23																						2										
24/-25																						7										
26/-27																						3										
28/-29																						1										
TOTAL	17.634	823.318	2	8.5	4.1	.7	.5												846		846	846										

PSYCHROMETRIC SUMMARY

<u>72775F</u>	<u>MALMSTROM AFB MT</u>
STATION	STATION NAME

74-87

YEARS

FE
MONTH

9455

~~03-2-2522~~
HOLDS (1-8-14)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
18/-17	.4																		3	3	3	17													
18/-19	.2																		2	2	2	9													
21/-21																						17													
22/-23	.2																		2	2	2	9													
24/-25																						1													
26/-27																						4													
27/-33																						7													
TOTAL	11.733	824	718	7	7	3	3	.5	.4										846			846													

Element (X)	Σ x'	Σ x	Σ	Σ ²	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	35198.14	53376	63.103	421	846	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	703234	20442	24.215	738	846	8.6	53.5					84
Wet Bulb	528175	17637	27.813	781	846	10.1	68.2					84
Dew Point	314799	14903	12.814	467	846	15.5	82.9					84

PSYCHROMETRIC SUMMARY

74-57

STATION

STATION NAME

YEARS

MONITOR

PAGE 1

7500-0847

NOV 11 1972

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point															
67/ 53																		3	3																	
67/ 51																		5	5																	
67/ 47																		6	6																	
64/ 45																		26	26	1																
64/ 43																		17	17	6																
62/ 41																		33	33	13																
67/ 39																		64	64	15																
67/ 37																		58	58	22																
67/ 35																		51	51	18																
64/ 33																		57	57	63																
67/ 31																		64	64	69																
67/ 29																		41	41	77																
67/ 27																		45	45	69																
66/ 25																		31	31	56																
67/ 23																		27	27	47																
67/ 21																		12	42	39																
67/ 19																		11	33	45																
67/ 17																		16	36	72																
67/ 15																		14	14	24																
67/ 13																		19	19	18																
67/ 11																		11	21	70																
67/ 9																		13	13	25																
67/ 7																		21	21	11																
67/ 5																		9	9	20																
67/ 3																		14	14	14																
67/ 1																		28	28	22																
67/ -1																		13	13	14																
67/ -3																		17	17	13																
67/ -5																		12	13	8																
67/ -7																		13	13	13																
67/ -9																		9	14	6																
67/ -11																		8	8	9																
67/ -13																		6	6	4																
67/ -15																		3	3	1																
Element (X)	Z ₁	Z ₂	Z ₃	Z ₄	Z ₅	Z ₆	Z ₇	Z ₈	Z ₉	Z ₁₀	Z ₁₁	Z ₁₂	Z ₁₃	Z ₁₄	Mean No. of Hours with Temperature																					
Rel. Hum.																		≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total												
Dry Bulb																																				
Wet Bulb																																				
Dew Point																																				

PSYCHROMETRIC SUMMARY

74-87

YEARS

553
MONTH

PAGE 2 65-2-CA
HOURS 11.5.11

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL Dry Bulb Wet Bulb Dew Point				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
15/-17	.4																																	7	7	5	17
15/-19	.4																																	7	7	3	17
15/-21																																				17	
15/-22	.4																																	7	7	3	2
15/-25																																					
15/-27																																					
15/-30																																					
15/-32																																					
TOTAL	10.235	6.25	4.18	3	6.4	3.7	.5	.4																										846	846	640	

Element (X)	Z ₁ '	Z ₂	R	°s	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	35498.8	53610	63.4	13.48	946	± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	
Dry Bulb	593316	20144	23.8	15.002	946	9.1	54.2					39
Wet Bulb	523168	17378	27.5	14.724	946	10.3	63.6					44
Dew Point	318853	17617	12.5	18.021	946	16.1	82.7					23

GLOBAL CLIMATOLOGY BRANCH
 MACFAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

7 7755 MALMSTROM AFB MT

74-67

FF4

STATION

STATION NAME

YEARS

MONTH

PAGE : 000-117

MOUSE 1 5 8 1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
57/53																		1	53																
57/50																		2	50																
57/57																		6	57																
57/55																		8	55																
57/53																		13	53																
57/51																		16	51																
57/48																		24	48																
57/47																		23	47																
57/45																		29	45																
57/43																		44	43																
57/41																		45	41																
57/39																		53	39																
57/37																		46	37																
57/35																		42	35																
57/33																		39	33																
57/31																		34	31																
57/29																		43	29																
57/27																		43	27																
57/25																		18	25																
57/23																		11	23																
57/21																		21	21																
57/19																		29	19																
57/17																		16	17																
57/15																		18	15																
57/13																		11	13																
57/11																		21	11																
57/9																		11	9																
57/7																		23	7																
57/5																		7	5																
57/3																		19	3																
57/1																		29	1																
57/-1																		15	-1																
57/-3																		13	-3																
57/-5																		16	-5																
Element (X)	Σ X'			Σ X			Σ			Σ			No. Obs.			Mean No. of Hours with Temperature																			
Rel. Hum.																≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total													
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

2

YEARS

74-97

553

9-1-14
MAY 11 1964

USAFETAC FORM 0.26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

44

MON T H

HOURS 11-3-7-1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL																											
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point																																					
67																			4	4																																					
66																			1	1																																					
65																			1	1																																					
64																			4	4																																					
63																			3	3																																					
62																			16	16																																					
61																			27	27																																					
60																			20	20																																					
59																			43	43	1																																				
58																			46	46	1																																				
57																			39	39	5																																				
56																			44	44	23																																				
55																			46	46	37																																				
54																			34	34	36																																				
53																			54	54	67																																				
52																			43	43	69																																				
51																			26	26	77																																				
50																			29	29	16																																				
49																			47	47	22																																				
48																			26	26	45																																				
47																			26	26	61																																				
46																			19	19	53																																				
45																			15	15	48																																				
44																			15	15	45																																				
43																			25	25	65																																				
42																			16	16	66																																				
41																			14	14	63																																				
40																			13	13	53																																				
39																			14	21	38																																				
38																			17	17	35																																				
37																			11	11	36																																				
36																			15	15	12																																				
35																			14	14	15																																				
34																			25	25	9																																				
Element (X)	Σ X ²		Σ X		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature																																												
Rel. Hum.													≤ 6 F					≤ 32 F					≥ 67 F					≥ 73 F					≥ 80 F					≥ 93 F					Total														
Dry Bulb																																																									
Wet Bulb																																																									
Dew Point																																																									

2

1

74-53

YEARS

FEF
MONTH

PAGE 1 1220-143
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
1/-1	.1	1.5																																14	14	23	16
-1/-3		1.1																																2	2	13	17
-1/-5	.6	.2																																7	7	11	17
-6/-7	.1	.2																																2	2	6	9
-2/-9	.4																																	3	3	2	11
1/-11	.2																																	2	2	2	8
12/-13																																					10
24/-15																																					10
16/-17																																					2
16/-19																																					11
16/-21																																					7
12/-22																																					7
TOTAL	3.126	116.311	917.413	0	2.9	4.7	2.1	1.7	.6	.1	.1																							846	846	845	

Element (X)	Σ X'	Σ X	X	C _s	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	2524879	99347	52.907.589	846	± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F		
Dry Bulb	1167479	27733	32.907.486	846	4.8	35.8	.5				89	
Wet Bulb	764938	22772	26.703.838	846	6.7	47.7					64	
Dew Point	358123	13115	15.503.350	846	13.0	79.7					84	

PSYCHROMETRIC SUMMARY

74-67

551

STATION

STATION NAME

YEARS

NOTES

PAGE 1 1500-1700
HOURS (L.S.T.)

[illegible]

PSYCHROMETRIC SUMMARY

71770.5	MALMSTROM AFB MT
STATION	STATION NAME

74-87

YEARS

FFR
MONTH

PAGE 1 1500-17.2
HOURS (L. S. T.)

[illegible]

21

YEARS

74-87

६५८

STATION

STATION NAME

PAGE 1

77-338

HOURS 11, 5, 7, 1

USAFETAC FORM 0-26-5 (OLA)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

74-87

YEARS

FFQ
MONTH

PAGE 2 14-00000
HOURS (L. S. T.)

USAFETAC FORM 0-26-5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

YEARS

552

MON T W

PAGE 2 21CC-2342
HOURS (I, S, T)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
1/-11	.7																																	6	6	6	17
11/-12	.2																																2	2	2	1	
14/-15	.2																																2	2	2	15	
16/-17	.2																																2	2	2	7	
17/-19	.2																																2	2	2	17	
17/-21	.4																																3	3	3	7	
22/-23																																					
24/-25																																				1	
27/-27																																					
27/-29																																					
27/-33																																					
TOTAL	9.932	7.24	6.28	8.8	9.6	5.3	9	1																									946	846	846	34	

Element (X)	Σ x'	Σ x	Σ	Σ ²	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3487985	53089	62.803	609	846	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	767629	21901	25.915	417	846	7.5	57.1					84
Wet Bulb	571442	18870	22.313	348	846	8.3	65.6					84
Dew Point	332641	12069	14.313	780	846	14.3	82.7					64

2

YEARS

74-27

575

STATION

STATION NAME

PAGE 2

MONTH

ALL
HOURS (L. S. T.)

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

2

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YEARS

FFR
MONTH

PAGE 2

ALL
MOUSE (1-5-7)

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0-26-5 (OL A)

NOON

USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

701755	MALMSTROM AFB MT
STATION	STATION NAME

74-83

YEARS

485

MONTH

Dgr r

0000-0000

HOURS (L, S, T,)

[illegible]

PSYCHROMETRIC SUMMARY

- 4 - 8 -

YEARS

W A 2
MONTH

Page 2

~~CONFIDENTIAL~~
HOURS 11.5.7.1

[illegible]

PSYCHROMETRIC SUMMARY

74-87

STATION	STATION NAME
---------	--------------

YEARS

MAC
MONTH

PAGE 1 30-0000
MOORE (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

77755	WALNUT CREEK AFB MT
STATION	STATION NAME

74-97

YEARS

412

NAME: _____

545.5

100-8500

HOURS (L, S, T,)

[illegible]

2

PSYCHROMETRIC SUMMARY

4A.

MON T 10

76-0-08-0

HOURS (L. S. T.)

USAFETAC

PSYCHROMETRIC SUMMARY

7-7755	MALMSTROM AFB MT
STATION	STATION NAME

74-82

YEARS

MAC
MONTH

PAGE 2 2600-2800
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point															
12/-13	.1																	1	1	1	1															
14/-15	.5																	3	3	3	1.1															
17/-17	.1																	1	1	1	2															
19/-19	.2																	2	2	2	1															
21/-21	.1																	1	1	1	2															
22/-23	.1																	1	1	1																
24/-25	.1																	1	1	1	2															
26/-27																					3															
28/-29																					2															
32/-33																					1															
34/-35																																				
TOTAL	10.832	32.32	516.1	9.2	3.0	1.7												930	933	933	93															

21

PSYCHROMETRIC SUMMARY

74-102

STATION

STATION NAME

YEARS

40

MONTH

PAGE : 297C-1100

HOURLS 11. 8. 7.3

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
77/59																		1	1																
76/57																		3	3																
76/55																		1	1																
76/53																		2	2																
76/51																		5	5																
76/49																		3	3																
76/47																		15	15																
76/45																		20	20																
76/43																		27	27																
76/41																		21	21	3															
76/39																		37	37	1															
76/37																		46	46	9															
76/35																		57	57	10															
76/33																		46	46	38															
76/31																		57	57	46															
76/29																		62	62	56															
76/27																		59	59	81															
76/25																		73	73	75	19														
76/23																		61	61	61	16														
76/21																		56	56	46	57														
76/19																		44	44	106	77														
76/17																		27	27	74	89														
76/15																		24	24	46	61														
76/13																		19	19	28	57														
76/11																		25	25	24	95														
76/9																		36	36	31	113														
76/7																		13	13	22	66														
76/5																		6	6	15	59														
76/3																		8	8	9	77														
75/59																		21	21	21	37														
75/57																		19	19	19	29														
75/55																		5	5	13	25														
75/53																		3	3	7	19														
75/51																		2	2	2	17														

Element (X)	Σx'	Σx	Σ	σ _s	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.						≤ 6 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-5 (OL A) REVISED PER VARIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

7 7755	MALMSTROM AFB MT
STATION	STATION NAME

74-92

YEARS

MAF
MONTH

PAGE 2 2970-11-0
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
/			.4															4	4	3	15														
/ -1		.1	.2															7	3	3	2														
- / -3			.5															5	5	2	1														
- / -5		.1	.1															2	2	6															
- / -7		.1																1	1	1	1														
- / -9		.1	.1															2	2	2	4														
/ -11		.3																7	3	3	1														
12/-13		.2																2	2	2	1														
14/-15		.2																2	2	2	1														
16/-17																					1														
18/-21																					1														
22/-23																					1														
24/-25																					1														
TOTAL	5.2	23.1	6.1	4.8	13.1	14.1	7.1	3.7	1.1	1.2	.2							937	937	937	937														

Element (X)	Σ X ²	Σ X	X̄	s _x	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3334434	52856	56.87	8.859	937	≥ 6 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	1337455	32841	35.33	8.32	937	2.0	33.0	.4				93
Wet Bulb	918646	27498	29.61	7.661	937	7.2	52.0					93
Dew Point	465198	18506	19.91	7.216	937	3.1	88.6					93

YEARS

74-57

483

STATION

STATION NAME

PAGE 170-140
HOURS 11-1-11

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point														
78/ 75																		1	1															
76/ 73																		1	1															
74/ 71																		1	1															
72/ 69																		2	2															
68/ 67																		5	5															
66/ 65																		12	12															
64/ 63																		8	8															
62/ 61																		12	12															
60/ 60																		26	26															
58/ 57																		32	32															
56/ 55																		47	47															
54/ 53																		36	36	2														
52/ 51																		39	39	4														
50/ 49																		52	52	3														
48/ 47																		65	65	7														
46/ 45																		58	58	37														
44/ 43																		52	52	75														
42/ 41																		65	65	75														
40/ 39																		43	44	61														
38/ 37																		48	48	73														
36/ 35																		40	43	73														
34/ 33																		39	39	87														
32/ 31																		47	47	101														
30/ 29																		28	29	71														
28/ 27																		23	23	40														
26/ 25																		14	14	83														
24/ 23																		18	19	22														
22/ 21																		25	25	78														
20/ 19																		12	12	21														
18/ 17																		9	9	13														
16/ 15																		15	15	8														
14/ 13																		20	20	21														
12/ 11																		8	8	15														
10/ 9																		3	3	6														

Element (X)	Σx'	Σx	Σ	σ _s	No. Obs.
Rel. Num.					
Dry Bulb					
Wet Bulb					
Dew Point					

Mean No. of Hours with Temperature					

GLOBAL CLIMATOLOGY BRANCH
UNAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

7-7795 MALMSTROM AFB MT

74-87

545

STATION

STATION NAME

YEARS

MOM T H

PAGE 1 100-1700

HOURS (L, S, T.)

[illegible]

2

Abstract

74-82

YEARS

MA
MONTH

PAGE 7 1520-17.0
HOURS (L. S. T.)

USAFETAC FORM 0-26-5 (OL A) APR 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GENERAL CLIMATOLOGY BRANCH
METEOR
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755 MALMSTROM AFB MT

74-93

442

STAT 2M

STATION NAME

YEARS

MONTH

PAGE 5

10-11-12

HOURS (L. S. T.)

[illegible]

USAFETAC
FORM
0-26-5 (OLA)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

74-07

YEARS

MAY
MONTH

PAGE 2 157-234
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
1/-1																																					
2/-2																																					
3/-3																																					
4/-4																																					
5/-5																																					
6/-6																																					
7/-7																																					
8/-8																																					
9/-9																																					
10/-10																																					
11/-11																																					
12/-12																																					
13/-13																																					
14/-14																																					
15/-15																																					
16/-16																																					
17/-17																																					
18/-18																																					
19/-19																																					
20/-20																																					
21/-21																																					
22/-22																																					
23/-23																																					
24/-24					</																																

GLOBAL CLIMATOLOGY BRANCH
CLIMATE
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 PALMSTROM AFB MT

74-87

4A =

STATION

STATION NAME

YEARS

MONTH

PAGE 1

71 3-23

HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

7-27

YEARS

✓ A ✓
MONTH

PAGE 2 01-0-27
HOURS 11.5.71

[illegible]

GLOBAL CLIMATOLOGY BRANCH
SAFEAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727735	MALMSTROM AFB MT
STATION	STATION NAME

4-8

YEARS

442

NOTES

D 650

341

ALL
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

7-7756	MALMSTROM AFB MT
STATION	STATION NAME

4-82

YEARS

443

MON T W

0458

411

HOURS (L. S. Y.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31	Dry Bulb	Wet Bulb	Dew Point	
7																																		65	55	71	174
5																																		51	31	44	119
3																																		39	19	34	99
1																																		29	9	24	72
-1																																		19	-1	14	52
-3																																		9	-11	4	27
-5																																		-1	-13	3	17
-7																																		-11	-15	2	7
-9																																		-15	-17	1	2
-11																																		-17	-19	0	1
-13																																		-19	-21	0	0
-15																																		-21	-23	0	0
-17																																		-23	-25	0	0
-19																																		-25	-27	0	0
-21																																		-27	-29	0	0
-23																																		-29	-31	0	0
-25																																		-31	-33	0	0
-27																																		-33	-35	0	0
-29																																		-35			
-31																																					
-33																																					
-35																																					
TOTAL	6.4	25.6	21.3	15.5	11.7	7.8	5.7																														

PSYCHROMETRIC SUMMARY

74-87

YEARS

MONTH

HOURS (L. S. T.):

FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
AA 64

USAFETAC

PSYCHROMETRIC SUMMARY

7:1755	MALMSTROM AFB MT
STATION	STATION NAME

74-83

YEARS

AD
MONITOR

PAGE 7 0000-2200
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL					
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	O.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
-5 / -7	0.2																																		0.2	7	2	
-5 / -9	0.3																																		0.3	1	1	1
-7 / -11																																						
-11 / -15																																						
TOTAL	7.7	15.6	23.7	23.1	14.7	8.7	5.7	2.7	.1																									900	9.3		9.3	

2

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74-82

STATION

MALMSTROM AFB MT

STATION NAME

YEARS

AP 7

PAGE : 2320-2500

HOURS (L. S. T.)

0-26-5 (OL A)

USAFETAC

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74-87

MONTH

7000-085

TOTAL

0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

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74-93

YEARS

APR
MONTH

PAGE 7 2622-38-2
HOURS 16.1.71

0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

PSYCHROMETRIC SUMMARY

74-87

ADU

STATION

STATION NAME

YEARS

MONTH

PAGE 12 0-14 0
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb	Dew Point															
67/89																		.1	1	1															
68/87																		.1	2	2															
66/85																		.1	1	1															
64/83																		.1	1	1															
67/81																		.1	4	4															
67/79																		.1	11	11															
67/77																		.1	5	5															
70/75																		.1	9	9															
67/73																		.1	9	9															
71/71																		.1	21	21															
71/69																		.1	27	27															
66/67																		.1	24	24															
67/65																		.1	43	43															
64/63																		.1	38	38															
67/61																		.1	34	34															
67/59																		.1	61	61															
68/57																		.1	47	47	9														
66/55																		.1	48	48	9														
64/53																		.1	45	45	13														
62/51																		.1	45	45	50														
67/49																		.1	56	56	15														
68/47																		.1	51	51	69														
67/45																		.1	42	42	73	6													
64/43			.1	.7	1.3	1.3	1.1	.7	.4	.1								.1	44	44	72	12													
62/41				1.4	.9	.4	.4	.1										.1	30	31	78	17													
60/39			.7	1.6	1.4	1.1	.3											.1	45	46	99	11													
58/37			.7	1.8	.3	.6	.2											.1	32	33	102	36													
56/35			1.2	1.8	.6													.1	29	29	73	33													
54/33			.7	.7	.4													.1	16	16	70	51													
52/31			.2	.6	.6													.1	12	12	38	100													
50/29				.3														.1	8	8	20	77													
48/27			.2	.6														.1	7	7	17	114													
46/25	.1	.7	.8															.1	14	14	16	93													

0-26-5 (O.L.A.)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

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4-83

YEARS

APR
MONTH

PAGE 2 1300-1400
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
22 / 21			.3															7	7	6	63											
21 / 19			.2															2	2	2	74											
18 / 17			.3															3	2	4	5											
16 / 15																				1	42											
14 / 13	.1	.2																3	3	1	32											
11 / 11	.3	.1																4	4	5	17											
9 / 9	.3	.1																4	4	5	5											
7 / 7	.1																	1	1	1	11											
5 / 5																					4											
4 / 3																					1											
TOTAL	1.2	6.6	9.8	7.2	7.6	8.7	12.2	15.5	11.3	5.6	5.7	4.0	2.6	.9	.9	.2	.2	899	9.0	899	899											

Element (X)	Σ x'	Σ x	R	c _s	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	1874851	36829	81.2	20.191	899	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	2674687	46785	52.7	13.958	907		6.5	13.1	5.9	1.5		90
Wet Bulb	1532795	36339	47.4	8.436	899		12.1					97
Dew Point	655389	23255	25.9	7.743	899		74.1					97

GLOBAL CLIMATOLOGY BRANCH
OFFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

7-7755
STATION

MALMSTROM AFB MT

74-83

YEARS

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MONITOR

PAGE 1

15-00000

HOURS (L, S, T)

[illegible]

PSYCHROMETRIC SUMMARY

74-83

YEARS

ADG
MONTH

PAGE 1 1500-1700
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFC WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

7: 7755. 44L"STROM AFB MT

74-83

ADD:

STATION

STATION NAME

YEARS

MORE THAN

PAGE :

15-2-3000

HOURS (L, S, T,)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point												
85																		1	1													
84																		1	1													
83																		1	1													
82																		7	7													
81																		3	3													
80																		4	4													
79																		14	14													
78																		16	16													
77																		28	28													
76																		17	17													
75																		31	31													
74																		25	25													
73																		35	35													
72																		47	47	2												
71																		55	55	9												
70																		42	42	15												
69																		56	56	24												
68																		53	53	42	1											
67																		47	47	61	3											
66																		58	58	62	4											
65																		56	56	77	9											
64																		45	45	81	13											
63																		49	49	77	14											
62																		55	55	97	27											
61																		38	38	89	37											
60																		34	34	77	53											
59																		19	19	72	105											
58																		6	6	36	67											
57																		12	12	21	98											
56																		11	11	12	103											
55																		2	2	11	59											
54																		7	7	6	57											
53																		3	3	4	66											
52																		2	2	2	51											
Element (X)	2g'		2g		g		°a		No. Obs.		Mean No. of Hours with Temperature																					
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total									
Dry Bulb																																
Wet Bulb																																
Dew Point																																

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0-26-5 (OL A)

USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755	MALMSTROM AFB MT
STATION	STATION

74-92

APP

MONITOR

PAGE 1 210-230
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

74-62

YEARS

APR
MONTH

PAGE 2 21-0-28 C
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
/ -1																																		
/ -1																																		
-4/-5		.1																1	1	1														
-6/-7		.1	.1															2	2	2														
-12/-13																																		
-14/-15																																		
-17/-21																																		
TOTAL	3.215	5.15	9.17	6.19	12.7	9.3	4.2	2.1	.7	.2	.1							899		899	849													

Element (X)	Σ X'	Σ X	X	C _s	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3278788	51789	56.818	497	899	≤ 67 F	≤ 72 F	≤ 77 F	≤ 82 F	≤ 87 F	90	
Dry Bulb	1667168	37482	41.610	876	900	.3	19.2	.2			90	
Wet Bulb	1165557	31587	35.1	7.878	899	.3	31.1				92	
Dew Point	659671	23339	26.0	7.738	899	.4	79.3				29	

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PSYCHROMETRIC SUMMARY

AD 3

STATION

STATION NAME

YEARS

MONTH

DATE:

211

HOURS (L. S. T.)

USAFETAC FORM 0-26-5 (OLA)
RE. M. REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

74-82

MAY

STATION

STATION NAME

YEARS

MON T

PAGE 1

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HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	Dry Bulb	Wet Bulb	Dew Point				
77/71											.1	.1						2	2					
77/69												.1						2	2					
77/67													.1					2	2					
76/65									.1	.2								4	4					
74/63								.3	.4	.1								3	7					
77/61							.3	.4	.1									3	8					
77/59				.3	.5	.8	1.5	.3	.3									29	29					
77/57			.4	.5	.4	1.5	.1	.4	.1	.1								73	33					
77/55		.4	.4	1.5	1.6	1.6	.1		.1									46	46	1				
74/53		.6	.9	.5	1.8	1.3	.3	.2	.1									58	54	17				
72/51		.4	1.7	2.2	1.5	.8	.3	.3										68	68	79				
70/49		.6	3.7	1.5	2.7	1.7	.7											88	88	58				
68/47		.9	3.9	4.1	2.2	.8	.1											109	110	67				
46/45	.2	2.7	3.2	1.7	1.9	.2												87	87	104				
44/43	.1	1.8	2.6	2.7	1.1	.3												88	80	92				
42/41		2.7	3.7	2.4	.5	.3												77	77	121				
41/39	.1	3.2	2.9	2.2	.3													85	85	107				
74/37	.2	1.3	1.4	1.1	.5													42	42	110				
76/35	.9	1.6	1.6	1.1	.2													50	50	75				
74/33	.4	1.7	1.3	.1														73	33	58				
72/31	.8	.6	.4	.1														18	18	60				
70/29	.2	.1																3	3	21				
78/27																				6				
76/25			.2															2	2	1				
74/23																				21				
72/21																				2				
70/19																				19				
68/17																				11				
66/15																				9				
64/13																				2				
62/11																				1				
TOTAL	2.9	17.5	27.2	21.2	15.6	9.4	7.7	1.9	.9	.4	.2							929	73	929				
																		929	929					
Element (X)	ΣX ²		ΣX		Σ		Σ ²		No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.	4340267		61533		66.216		885		929		≤ 6 F		≤ 32 F		≤ 67 F		≤ 73 F		≤ 80 F		≤ 93 F		Total	
Dry Bulb	232599		42899		46.1		7.607		930				2.3		.6								93	
Wet Bulb	1584621		37967		47.9		5.960		929				9.0										93	
Dew Point	1159326		32116		34.6		7.271		929				34.1										93	

PSYCHROMETRIC SUMMARY

YEARS

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PAGE 1 7350-0500
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

44 Y

MỘT T H

600-3800

HOURS (L, S, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb	Dew Point				
70/ 77											.1							1	1					
76/ 75													.1					1	1					
77/ 71											.1							1	1					
71/ 69										.1	.1							1	1					
69/ 67										.1	.1							1	1					
66/ 55										.1								1	1					
64/ 63										.1	.1							1	1					
62/ 61						.1	.1	.1	.1									1	1					
60/ 59						.1	.1	.1	.1									1	1					
56/ 57			.1	.6	1.0	1.4	.9	.7	.7	.1								4	4	2				
58/ 55			.1	.8	1.2	2.2	.9	.7	.7									6	6	7				
54/ 53		.4	1.2	1.8	2.2	2.7	.6	.6	.6									8	8	19				
52/ 51		.8	1.6	2.0	2.4	2.8	.5	.5	.5									7	7	49				
50/ 49		.5	2.7	2.3	2.8	1.4	.1	.1	.1									9	9	48				
47/ 47		1.5	3.5	2.5	1.8	1.2	.6	.6	.6									6	6	12				
46/ 45		1.7	3.1	2.7	1.6	.8												2	2	44				
44/ 43	.3	1.7	2.3	1.6	1.2	.1												6	6	55				
42/ 41		2.2	1.8	1.2	.2	.3												3	3	86				
40/ 39	.2	3.1	1.9	2.2	.8													7	7	156				
38/ 37	.3	1.8	1.7	.3	.2													4	4	101				
36/ 35	.7	1.4	1.7	.3	.2													5	5	113				
34/ 33	.1	1.7	.9	.1														2	2	75				
32/ 31	.5	.2	.2															1	1	154				
30/ 29	.4	.1																5	5	63				
28/ 27																				48				
26/ 25		.1																1	1	49				
24/ 23																				1				
22/ 21																				12				
20/ 19																				19				
18/ 17																				4				
16/ 15																				2				
14/ 13																				1				
TOTAL	2.2	16.8	22.3	19.4	17.1	12.8	6.1	2.2	.5	.2	.4	.1						930	930	930				
Element (X)	Σx'		Σx		Σ		Σ		Σ															

2

1

74-93

YEARS

MAY
MONTH

PAGE 1 0900-1100
HOURS (L. S. T.)

0-26-5 (OLA)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AID WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

7.7755 MALMSTROM AFB MT

74-93

4 A V

STATION

STATION NAME

YEARS

MONTH

PAGE 2

2000-11-0
HOURS (L. S. T.)

[illegible]

2

1

74-83

YEARS

493

PAGE : 125-142
HOURS (L. S. T.)

[illegible]

0-26-5 (OLA)

USAFETAC

GLOBAL CLIMATOLOGY BRANCH
HAFETAC
ATC WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

72775F	HALMSTROM AFB MT
STATION	STATION NAME

74-87

YEARS

• • •

MONTH

0455 -

12-0-14
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
21																						
19																						
17																						
15																						
13																						
11																						
9																						
7																						
5																						
TOTAL	1.3	5.2	6.6	7.5	6.1	7.4	11.1	11.5	6.5	0.9	6.2	4.3	2.4	1.1	.4	.3	.1		929	929	929	929

Element (X)	Σ H ¹	Σ H	X̄	s _x	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	2135292	40272	43.32	0.487	929	≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≥ 93 F	
Dry Bulb	3464797	55236	60.11	0.09	929		2	25.9	12.7	2.3		93
Wet Bulb	2146255	44271	47.7	6.275	929		4					93
Dew Point	1188880	72472	35.0	7.619	929		35.3					93

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0-26-5 (OL A)

USAFETAC

2

- 4 - 2 -

YEARS

19 Y
MONTH

PAGE 1 1503-1712
HOURS (L. S. Y.)

USAFETAC FORM 0-26.5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUL 84

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755	MALMSTROM AFB MT
STATION	STATION NAME

74-87

YEARS

DAY
MONTH

PAGE 2 1570-1700
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
GC445TAC
ATTN: WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION	MALMSTROM AFB MT
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74-52

YEARS

DAY
MONTH

PAGE 1 18-2-2000
HOURS (L. S. T.)

[illegible]

2

YEARS

74-87

4AY

MONTH

PAGE 2 1800-2200
HOURS (L. S. T.)

FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

PSYCHROMETRIC SUMMARY

74-93

4A X

STATION

STATION NAME

YEARS

MON T

PAGE 2

7100-2300

HOURS (L. S. Y.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
TOTAL	1.8	15.4	18.5	16.0	14.4	15.2	3.2	5.2	3.2	.7	.7	.4						93.0	93.7	97.3	97.7			
Element (X)	Z _{H'}	Z _H	X	a _s	No. Obs.	Mean No. of Hours with Temperature						Total												
Rel. Hum.	3768713	56479	60.7	19.095	930	= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	Total												
Dry Bulb	2343516	46068	49.5	8.137	930		.9	1.6	.6			93												
Wet Bulb	1737432	39A26	42.8	5.863	930		4.4					93												
Dew Point	1201361	32671	35.1	7.598	930		32.9					93												

PSYCHROMETRIC SUMMARY

77755 MALMSTROM AFB MT

74-87

YEARS

YAY
MOMMY

PAGE 1

ALL
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
80/ 80																		3	3																
80/ 81																		6	6																
80/ 82																		9	9																
80/ 83																		15	15																
80/ 84																		37	37																
80/ 85																		42	42																
80/ 86																		72	72																
80/ 87																		87	87																
80/ 88																		99	99																
80/ 89																		135	135																
80/ 90																		174	174																
80/ 91																		213	213																
80/ 92																		292	292																
80/ 93																		298	298																
80/ 94																		320	320	11															
80/ 95																		374	374	52															
80/ 96																		433	433	157	1														
80/ 97																		472	472	255	15														
80/ 98																		452	452	364	21														
80/ 99																		480	480	567	76														
80/ 100																		536	536	619	135														
80/ 101																		535	536	785	142														
80/ 102																		497	497	866	307														
80/ 103																		448	448	792	470														
80/ 104																		358	358	790	607														
80/ 105																		400	400	678	680														
80/ 106																		206	206	555	786														
80/ 107																		193	193	414	835														
80/ 108																		163	163	292	661														
80/ 109																		90	90	228	867														
80/ 110																		17	17	98	495														
80/ 111																		1	1	31	383														
80/ 112																		4	4	5	334														
80/ 113																																			

GLOBAL CLIMATOLOGY BRANCH
UNAFCTAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755 MALMSTROM AFB MT

74-83

447

STATION

STATION NAME

YEARS

NOTES

PAGE

ALL

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
77 71																					2	194		
77 70																						138		
77 77																						37		
76 75																						73		
74 73																						17		
72 71																						17		
77 78																						7		
77 75																						1		
TOTAL	1.0	12.4	16.6	14.2	11.2	10.1	8.3	8.7	6.8	3.9	2.7	1.7	1.3	.5	.7	.1	.7		7438	7438	7438			

Element (X)	Σ _h ¹	Σ _h	Σ	σ _h	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	26485291	414101	55.7	21.478	7438	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	21505469	391731	52.6	11.118	7439		11.2	87.9	35.7	8.6		744
Wet Bulb	14816442	328130	44.1	6.763	7438		35.9					744
Dew Point	9478515	259645	34.9	7.469	7438		273.7					744

2

2

74-f

YEARS

JUL
MONTH

PAGE 1 2000-0200
MOORE (J. S. T.)

[illegible]

0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

PSYCHROMETRIC SUMMARY

1111

MON TH

PAGE 1 30-2500
HOURS (L. S. T.)

[illegible]

2

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74-87

YEARS

JUN
MONTH

2600-0800
HOURS (L. E. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
77/ 81													.1					1	1															
77/ 79										.1			.2					2	2															
76/ 77										.1		.2						3	3															
76/ 75										.1	.1	.1						3	3															
74/ 73										.2	.2	.2						9	9															
72/ 71							.7	.6	.3	.1	.1							16	16															
71/ 69						.2	.4	1.1	.2	.2								20	22															
68/ 67				.1	.1	1.2	.9	.7	1.7	.1								37	37															
66/ 65			.1		.7	1.0	1.3	1.0	.2									39	39															
64/ 63			.3	.8	1.9	2.0	2.2	1.3	.1									76	78															
62/ 61		.2	.3	1.2	1.6	2.7	1.2	.3										60	67	8														
60/ 59		.1	.6	1.4	3.3	2.4	1.1	.1	.1									93	93	22	2													
58/ 57		1.0	2.4	2.9	3.4	2.1	.3	.2										112	112	55	0													
56/ 55		1.2	2.1	1.7	2.7	1.2	1.1	.3										93	93	87	13													
54/ 53		.7	2.9	3.0	3.1	1.6	.4											105	105	102	30													
52/ 51		.4	1.7	1.9	1.9	.3	.1	.1										58	58	150	54													
50/ 49		1.7	2.1	1.6	.9	.6	.1											62	62	107	64													
47/ 47		1.1	3.1	2.7	1.1	.1												67	67	114	101													
46/ 45	.2	1.1	1.4	.8	.1	.1												34	34	103	104													
44/ 43		.8	.4	.3														14	14	91	112													
42/ 41	.1	.3																																
40/ 39																																		
38/ 37																																		
36/ 35																																		
34/ 33																																		
32/ 31																																		
30/ 29																																		
28/ 27																																		
26/ 25																																		
24/ 23																																		
22/ 21																																		
20/ 19																																		
TOTAL	.3	8.7	17.6	17.4	22.8	14.9	10.0	6.0	2.3	1.0	.7		.2					900	900	900	900													
Element (X)	Σx'		Σx		Σ		Σ _n		No. Obs.		Mean No. of Hours with Temperature																							
Rel. Hum.	3674426		55188		61.3		5.927		900		≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total																	
Dry Bulb	2973160		51330		57.9		7.125		900				9.1	1.3	.2		90																	
Wet Bulb	2243157		44699		49.7		5.175		900								90																	
Dew Point	1692926		38612		42.9		6.362		900				5.2				90																	

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ATL WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

7-7755 MALMSTROM AFB MT

74-87

444

STATION

STATION NAME

YEARS

MONTH

PAGE 1

70-111

HOURS (L, S, T,)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point						
89 / 89																		1	1							
88 / 87																		2	2							
86 / 85												.1	.1	.1				3	3							
84 / 83											.2	.2	.1	.2				4	4							
82 / 81									.1	.2	.2	.3	.4	.4	.1			24	24							
81 / 79								.1	.4	.4	.6	.4	.3					25	25							
80 / 77									.6	1.6	.8	.6	.1					28	28							
78 / 75									.2	1.2	1.6	.9	.5					46	46							
74 / 73							.1	.4	1.4	1.1	1.4	1.1	.2					64	54							
72 / 71						.8	1.2	1.4	1.6	1.1	.7	.1						62	57							
70 / 69					.5	.8	1.2	1.4	1.9	.4	.2							68	69							
69 / 67				.1	.3	1.1	1.9	2.6	1.7	.4								75	75							
67 / 65			.1	.3	1.1	1.7	2.4	2.1	1.1	.8								61	61	5						
64 / 63				.2	1.2	1.7	1.9	1.6	.9	.1								66	66	29						
62 / 61			.1	.4	.7	1.7	1.6	1.4	.2									57	56	61						
61 / 59		.3	.2	1.2	1.9	1.4	2.2	1.2										73	73	76						
57 / 57		.3	.8	.8	1.1	1.1	1.3	.7										64	54	63						
56 / 55		.2	1.2	.9	.7	1.2	.9											53	57	119						
47 / 52		.1	1.2	.3	.6	.8	.4	.2										24	26	159						
42 / 51		.2	1.4	1.3	.4	.3												34	34	120						
37 / 49		.6	1.1	.7	.5	.1												27	27	79						
38 / 47		.2	.6	.4														11	11	77						
46 / 45			.1															1	1	64						
44 / 43		.2		.1														3	3	22						
40 / 41																				18						
41 / 39																				2						
38 / 37																				1						
36 / 35																										
34 / 33																				35						
32 / 31																				35						
31 / 29																				16						
28 / 27																				17						
26 / 25																				2						
24 / 23																				1						
Element (X)	Σ x'	Σ x	Σ	Σ	Σ	No. Obs.	Mean No. of Hours with Temperature																			
Rel. Hum.							≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F					Total									
Dry Bulb																										
Wet Bulb																										
Dew Point																										

PSYCHROMETRIC SUMMARY

YEARS

JUN
MONTH

PAGE 7 2020-11-03
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	+ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
77 31																																			
77 19																																			
TAL	2.2	6.4	7.1	9.4	13.3	16.8	15.4	11.1	9.2	4.7	2.7	1.1	.2	.2				95.0	97.0	97.0	97.0														

GLOBAL CLIMATOLOGY BRANCH
LEAFETAC
AID WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

7-7755	MALMSTROM AFB MT
STATION	STATION NAME

74-83

YEARS

JUN
MONTH

PAGE 1 1000-1417
HOURS (L. S. T.)

[illegible]

USAFETAC
FORM
0-26-5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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70795	MALMSTROM AFB MT
STATION	STATION NAME

74-67

YEARS

474

MONTH

PAGE 7 10-19-1962
HOURS (L. S. T.)

[illegible]

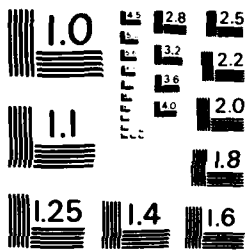
AD-A141 229

WALNSTROM AFB MONTANA REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBSERVAT..(U) AIR FORCE ENVIRONMENTAL
TECHNICAL APPLICATIONS CENTER SCOTT A.. FEB 84
USAFETAC/DS-84/007 S81-AD-E850 615 F/O 4/2

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516



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS - 963 - 1

PSYCHROMETRIC SUMMARY

74-07

YEARS

July
MONTANA

PAGE 2 1500-17.0
HOURS (L. S. T.)

[illegible]

2

1

74-97

JUN

STAT-3M

STATION NAME

YEARS

MONTH

PAGE 2

1970-2021
HOURS (L. S. T.)

[illegible]

2

1

74-32

STATION

STATION NAME

YEARS

MONTANA

CASE 1

All

HOURS (L. S. T.)

[illegible]0-26-5 (OLA)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETYAC

GLOBAL CLIMATOLOGY BRANCH
USAF/CTAC
ATTN: WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

72776.5
STATION

MALMSTROM AFB MT

74-87

YEARS

JUN
MONTH

PAGE

Affiliations:

ALL
HOURS L. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
25																					
24																					
23																					
22																					
21																					
20																					
19																					
TOTAL	6.5	12.1	13.2	13.1	10.9	10.7	8.0	7.7	5.8	4.1	2.0	1.9	1.1	71.08	71.98	71.08	71.98

Element (X)	Σ g'	Σ g	Σ	Σ ²	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	22844948	380767	52.9	19.781	7198	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	28307374	444688	61.8	10.770	7198		.1	228.2	128.3	48.8	1.5	720
Wet Bulb	19320676	379192	51.4	6.257	7198		.2	3.7				720
Dew Point	13278885	304697	42.3	7.274	7198		77.3					720

GLOBAL CLIMATOLOGY BRANCH
METEOR
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1 0755 PALMSTROM AFB MI

74-87

1931

STATION

STATION NAME

YEARS

MONTH

PAGE 1

2501-2502

HOURS (L, S, T, I)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ATP WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 PALMSTROM AFB MT

74-67

YEARS

JUL
MONTH

PAGE 1 0600-0800
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	Dry Bulb	Wet Bulb	Dew Point				
84/ 83																				1	1			
84/ 79																				3	3			
74/ 77																				7	7			
74/ 75																				19	19			
74/ 73																				28	28			
74/ 71																				37	37			
74/ 69																				62	62			
68/ 67																				72	72			
66/ 65																				88	88	3	1	
64/ 63																				101	101	11	4	
64/ 61																				120	120	37	5	
64/ 59																				122	122	77	13	
60/ 57																				28	28	175	27	
60/ 55																				77	77	146	49	
60/ 53																				78	78	149	47	
62/ 51																				35	35	133	97	
60/ 49																				15	15	85	144	
60/ 47																				5	5	77	118	
60/ 45																						34	128	
60/ 43																				1	1	16	52	
60/ 41																						3	7	
60/ 39																							43	
76/ 37																							37	
76/ 35																							18	
74/ 33																							13	
72/ 31																							13	
70/ 29																							5	
68/ 27																							1	
62/ 21																							7	
60/ 19																							1	
TOTAL	.1	4.6	12.2	17.1	19.8	16.9	13.2	8.1	4.7	2.3	1.0									929	979		929	
Element (X)	Σx'	Σx	I	σs	No. Obs.					Mean No. of Hours with Temperature														
Rel. Hum.	3440590	54776	59.0	15.278	929					≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total								
Dry Bulb	3629773	57807	62.2	6.277	930							22.9	5.8	.2		93								
Wet Bulb	2698419	49889	53.7	4.559	929							.2				93								
Dew Point	2066857	43429	46.7	6.283	929						2.2					93								

FORM 0-26-5 (OL A) REVISI PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

GLOBAL CLIMATOLOGY BRANCH
JANAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFF MT

74-87

901

STATION

STATION NAME

YEARS

MONTH

PAGE : 000-110

HOURS (L. S. T.)

[illegible]

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4-52

YEARS

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42-11
HOURS 11.5.7.

USAFETAC
FORM
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0-26-5 (OLA)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 1. AFSTAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

***** WILMSTON AFB NC

74-87

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STATION NAME

YEARS

MONTH

PAGE 1 100-14

HOURS 11-5-7

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PSYCHROMETRIC SUMMARY

74-87

YEARS

JUL
MONTM

PAGE 2

12-14
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
7 / 29																						
7 / 27																						
7 / 25																						
7 / 23																						
TOTAL	.4	1.1	2.2	3.2	2.7	6.2	8.2	10.6	13.2	15.4	11.8	7.2	6.1	6.7	3.3	1.1			92.0	97.1	93.1	

Element (X)	Z _g ¹	Z _g	Z	°s	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	1331 31	32535	35.0	14.435	937	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≥ 93 F	
Dry Bulb	57209.9	72549	78.7	8.135	937			35.1	71.4	41.2	2.9	93
Wet Bulb	33326.1	55515	59.7	4.489	937			5.1	.1			93
Dew Point	26330.85	42905	46.1	7.602	937		3.6	.7				93

YEARS

70775F	WALNSTRON AFB MT
STATION	STATION

74-27

JUL
MONTH

Page 1

15-0-17-0
HOURS (L. S. T.)

USAFETAC FORM 0-20-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JAN 64

PSYCHROMETRIC SUMMARY

74-27

YEARS

1990

PAGE 7 1500-1700
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Dry Bulb	Wet Bulb	Dew Point		
72/ 71																																				25	
71/ 70																																				9	
70/ 77																																				7	
66/ 25																																				4	
72/ 71																																				1	
71/ 19																																				7	
68/ 17																																				1	
TOTAL																																			930	976	93

Element (X)	Σ x'	Σ x	Σ	Σ ²	No. Obs.	Mean No. of Hours with Temperature							Total
Rel. Hum.	1192249	30201	32.5	15.788	930	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F		
Dry Bulb	5958347	73090	79.6	8.789	930			85.5	73.9	89.3	5.7	97	
Wet Bulb	3344614	55616	59.8	8.481	930			4.9	1.0			93	
Dew Point	1044524	41870	45.0	8.001	930		8.0	1.2				90	

PSYCHROMETRIC SUMMARY

YEARS

MONTH

PAGE 1 1670-2100
HOURS (L. S. T.)

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74-37

1991

STATION

STATION NAME

YEARS

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PAGE

1950-2000
HOURS (L. S. T.)

0-26-5 (OLA)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

GLOBAL CLIMATOLOGY BRANCH
LAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

7-7755	PALMSTROM AFB MT
STATION	STATION NAME

4-87

YEARS

_____ MONTH

PAGE 1 71-0-2300
HOURS (L.S.T.)

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74-87

STATION

STATION NAME

YEARS

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USAFETAC

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GLOBAL CLIMATOLOGY BRANCH
AFETAC
WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION 7755 MALMSTROM AFB MT

74-97

JUL

STATION

STATION NAME

YEARS

MONTH

PAGE 1

ALL

HOURS (L. S. Y.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb	Dew Point					
81																					153				
80																					46				
79																					30				
78																					15				
77																					2				
76																					6				
75																					6				
74																					4				
73																					1				
72																					1				
TOTAL	.1	7.2	7.11	7.12	7.1	6.6	8.2	9.1	5.3	5.0	4.9	3.5	2.4	2.1	1.6	.2		7447	7439	7439					

Element (X)	ΣH	ΣW	ΣP	ΣD	No. Obs.	Mean No. of Hours with Temperature						Total
						$\pm 0 F$	$\pm 32 F$	$\pm 67 F$	$\pm 73 F$	$\pm 80 F$	$\pm 93 F$	
Rel. Hum.	20239246	360387	49.4	19.231	7439							
Dry Bulb	35797639	509731	64.5	10.944	7440			397.4	264.9	133.8	8.9	744
Wet Bulb	23034324	415344	55.8	5.731	7439			16.9	1.6			744
Dew Point	16048551	341207	45.9	7.318	7439		30.4	3.3				744

FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

YEARS

11-756 PALMISTROM PER MT

74-57

A. 1. C.

STATION

STATION NAME

5465

7-375-1517

HOURS (L, S, T.)

USAFETAC

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YEARS

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MONTH

HOURS (L. S. T.)

USAFETAC
FORM
NO. 44
0-26-5 (O.L.A.)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

YEARS

4-2

2005

STATION

STATION NAME

MONTH

PAGE 100-140
HOURS 12.5.7

0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

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2

YEARS

74-55

ALL
MONTH

PAGE 2 12-14
HOURS (L. S. T.)

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2

PSYCHROMETRIC SUMMARY

8115

MONTH

PAGE : 1512-17
HOURS (L. S. T.)

USAFETAC FORM 0-26-5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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PSYCHROMETRIC SUMMARY

74-57

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STAT 12M

STATION NAME

YEARS

MONTH

PAGE 1 15-2-200
MOUSE 11-3-71

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USAFETAC FORM 0-26-5 (OL A) REVISÉ PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

75-92

YEARS

ALL
MONTH

PAGE 2 1825-200
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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PSYCHROMETRIC SUMMARY

74-27

STATION

STATION NAME

YEARS

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MONTH

PAGE 9

71-6-2300

HOURS L. S. T.

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2

AUG
MONTH

74-87

7-7255	MALMSTROM AFB MT
STATION	STATION NAME

YEARS

PAGE 1

ALL
HOURS (L. S. T.)

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GLOBAL CLIMATOLOGY BRANCH
 CHAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

71 7755 MALMSTROM AFB MT

'4-3'

415

MONTH

YEARS

PAGE 2

444

HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
77 26																					411
77 73																					737
77 71																					194
77 29																					111
77 27																					77
77 25																					14
77 23																					1
TOTAL	3.5	2.7	10.0	17.7	11.4	10.3	8.5	7.6	7.1	5.2	4.4	3.7	3.4	1.8	1.2	1.0		7447	7447	7447	

PSYCHROMETRIC SUMMARY

74-87

STATION	STATION NAME
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YEARS

170

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PAGE 1

0323-7500

MOULTS I L. S. ?

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GLOBAL CLIMATOLOGY BRANCH
C/SECTAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755	WALMSTON AFB MT
STATION	STATION NAME

74-87

YEARS

SEP
MONTH

PAGE 1 2604-0801
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
77/ 77																		1	1																
76/ 75																		1	1																
74/ 73																		7	7																
72/ 71																		4	4																
70/ 69																		12	12																
68/ 67																		12	12																
66/ 65																		9	9																
64/ 63																		33	33																
62/ 61																		26	26																
60/ 59																		63	63																
58/ 57																		50	50																
56/ 55																		54	54	22	7														
54/ 53																		56	56	24	4														
52/ 51																		73	73	53	4														
50/ 49																		65	65	66	1														
48/ 47																		73	73	90	14														
46/ 45																		63	63	124	37														
44/ 43																		69	69	155	63														
42/ 41																		37	50	172	76														
40/ 39																		45	45	194	93														
38/ 37																		32	32	56	117														
36/ 35																		31	33	59	112														
34/ 33																		29	29	45	97														
32/ 31																		11	11	29	117														
30/ 29																		3	3	13	78														
28/ 27																				4	43														
26/ 25																		1	1	1	21														
24/ 23																					3														
22/ 21																					5														
20/ 19																					6														
18/ 17																					1														
TOTAL	2,116	112	117	71	6,811	2	3,7	4,1	2,7	1,1	5	2	3					900	900	900	900														

Element (X)	Z _X ¹	Z _X	X	P _X	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3766653	55081	62.2	17.792	900	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	2286484	44604	49.6	9.189	900		1.5	3.7	.9			900
Wet Bulb	1698468	38706	43.7	6.136	900		4.4					900
Dew Point	1193699	32313	35.9	6.179	900		28.2					900

GLOBAL CLIMATOLOGY BRANCH
CLASSIC
AT WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 CALMSTROM AFB MT

74-97

STATION

STATION NAME

YEARS.

MONTH

PAGE 1 2050-11 0
HOURS 11.5.71

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YEARS

777755

HALMSTROM FEB 87

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STAT 2N

STATION NAME

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0300-0517

HOURS: L. S. T.

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PSYCHROMETRIC SUMMARY

YEARS

55
MONTH

HOURS (L. S. Y.)

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PSYCHROMETRIC SUMMARY

74-97

YEARS

1.50
MONTH

PAGE 1 1200-1400
HOURS (L.S.T.)

0-26-5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

SEP
MONTH

PAGE 2 100-142
MAY 11 1961

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CENTRAL CLIMATOLOGY BRANCH
JAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727750 PALMSTROM AFF MT
STATION STATION NAME

✓ 4 - 8 ✓

YEARS

555

MONTH

PAGE : 1970-1707
HOURS 11:30-1

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL																																																																																																																																																													
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31	Dry Bulb	Wet Bulb	Dew Point																																																																																																																																																										
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Element (X)	Σ x ²		Σ x		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature																																																																																																																																																																																			

2

41

SEP
MONTH

PAGE 2 15-17-3
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point														
77	0																	0	77	77	77														
72																					57														
67																					50														
62																					24														
57																					10														
52																					2														
47																					20														
42																					0														
TOTAL	0	2.9	4.7	3.4	3.3	4.1	5.1	8.6	10.8	11.6	10.6	8.0	10.2	6.0	5.0	3.8	2.6	900	900	900	900														

Element (X)	Z_H'	Z_H	Z	σ_H	No. Obs.	Mean No. of Hours with Temperature						
						$\leq 0^\circ F$	$\leq 32^\circ F$	$\leq 67^\circ F$	$\leq 73^\circ F$	$\leq 80^\circ F$	$\leq 93^\circ F$	Total
Rel. Hum.	1351352	30289	33.6	9.218	900							
Dry Bulb	9411475	61947	68.8	12.817	900		2	54.5	39.3	18.5	9	90
Wet Bulb	2432781	46441	51.6	6.761	900		2					90
Dew Point	1176539	31917	35.5	7.048	900		30.3					90

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

70755 HALLSTROM AFB MT

74-87

SEP

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1870-2000

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	Dry Bulb	Wet Bulb	Dew Point															
66/ 66																		.1	1	1															
64/ 63																		.1	1	1															
62/ 61																		.1	1	1															
60/ 59																		.1	1	1															
58/ 57																		.1	4	3															
56/ 55																		.1	4	3															
54/ 53																		.1	5	3															
52/ 51																		.1	3	3															
50/ 50																		.1	3	3															
48/ 47																		.1	3	3															
46/ 45																		.1	3	3															
44/ 43																		.1	3	3															
42/ 41																		.1	3	3															
40/ 39																		.1	3	3															
38/ 37																		.1	3	3															
36/ 35																		.1	3	3															
34/ 33																		.1	3	3															
32/ 31																		.1	3	3															
30/ 29																		.1	3	3															

Element (X)	Z ₁	Z ₂	I	P _h	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≥ 93 F	
Dry Bulb												
Wet Bulb												
Dew Point												

FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JAN 64

USAFETAC

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GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

757755 HALMSTROM AFB MT 74-87 YEARS SEP MONTH

PAGE 1 1500-0000 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
27																																					40
25																																					27
23																																					16
21																																					13
19																																					9
17																																					4
15																																					2
13																																					0
TOTAL		2	5	4	7	2	3	0	9	2	9	21	17	11	2	17	9	17	2	7	0	4	8	1	0	2	4	0	0	7	0	2		900		900	

Element (X)	Σ x²	Σ x	Σ	Σ²	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	12732.9	3818.9	42.9	19.8	900	≤ 0 F	≤ 32 F	≤ 47 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	3496188	55126	61.3	11.5	900		5	27.8	14.7	4.8	.2	90
Wet Bulb	2139915	43513	48.3	6.3	900		6					90
Dew Point	1177138	31932	35.5	7.0	900		31.8					90

USAFETAC FORM 0-26-5 (D.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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PSYCHROMETRIC SUMMARY

YEARS

2422

22-0-27
HOURS (L. S. T.)

0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

PSYCHROMETRIC SUMMARY

4-47

55

STATION

STATION NAME

YEARS

51
MONTH

0457 -

7-00-2350

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT

74-87

STATION

STATION NAME

YEARS

MONTH

PAGE 1

ALL

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
71/77																																		89	37	213	71.7
71/71																																		41	47	98	97.7
70/70																																		6	6	50	94.6
70/27																																				71.0	
70/26																																		1	1	1	104
70/23																																				71	
70/21																																				71	
71/19																																				71	
70/17																																				71	
70/15																																				71	
70/13																																				71	
TOTAL	1.1	2.4	11.4	17.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	

Element (X)	Z ₁	Z ₂	I	P _a	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	21770814	357122	49.6	21.587	7193	± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	7193
Dry Bulb	25027203	413071	57.5	13.748	7200		4.7	17.5	104.4	41.7	1.9	7200
Wet Bulb	16047046	335096	46.7	7.103	7198		13.7					7198
Dew Point	9578992	288242	35.9	6.596	7198		231.1					7198

FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

GLOBAL CLIMATOLOGY BRANCH
LEADTAC
AT WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1-7755 MALMSTROM AFB MT

-4-57

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STATION

STATION NAME

YEARS

MONTH

DATE: 1-10-52

HOURS 11 5 7

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0.26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS POLAR ARE OBSOLETE

- 4 - 3 -

651

STATION	STATION NAME
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YEARS

MONTH

PAGE 1

300-2500
HOURS (L. S. T.)

USAFETAC

PSYCHROMETRIC SUMMARY

74-81

087

STATION

STATION NAME

YEARS

MONTH

0475 2

2600-ORLO
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

74-87

CC I

STATION

STATION NAME

YEARS

MONTH

PAGE 2 120-140
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point															
16 / 15																																				
14 / 13																																				
12 / 11																																				
10 / 9																																				
TOTAL	1.1	6.2	6.5	5.2	5.5	10.6	17.8	11.6	9.9	7.4	7.0	7.3	5.1	2.7	.9			93.0	93.0	93.0																

PSYCHROMETRIC SUMMARY

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268

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1502-1700

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
77/ 73																		8		4															
77/ 71																		7		7															
77/ 70																		10		10															
76/ 77																		17		17															
76/ 75																		10		20															
74/ 73																		27		27															
73/ 72																		26		26															
71/ 69																		31		31															
67/ 67																		41		41															
66/ 65																		40		40															
64/ 63																		41		42															
62/ 61																		58		58															
60/ 59																		51		51	3														
58/ 57																		55		55	11														
56/ 55																		66		66	21														
54/ 53																		72		72	63														
52/ 51																		47		47	73														
50/ 49																		52		52	94														
48/ 47																		53		53	94														
46/ 45																		76		76	105														
44/ 43																		22		22	98														
42/ 41																		36		36	73														
40/ 39																		36		36	86														
38/ 37																		18		18	75														
36/ 35																		19		19	41														
34/ 33																		19		19	34														
32/ 31																		10		10	32														
30/ 29																		4		4	21														
28/ 27																					7														
26/ 25																																			
24/ 23																																			
22/ 21																																			
20/ 19																																			
18/ 17																																			
Element (X)	Σ X ¹		Σ X		Σ		σ _s		No. Obs.		Mean No. of Hours with Temperature																								
Rel. Hum.											≤ 6 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total												
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

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74-67

YEARS

OCT
MONTH

PAGE 2 1500-1735
HOURS (L. S. T.)

USAFETAC FORM 0-26-5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

PSYCHROMETRIC SUMMARY

74-87

251

STATION

STATION NAME

YEARS

PAGE 1 187D-2757

HOURS (L, S, T)

[illegible]

2

41

MONTH

PAGE 2 120-2700
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
CHASSETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

72735 MALMSTROM AFB MT

- 4 - 57

357

STATION

STATION NAME

YEARS

MONTH

215

2203-232

HOURS (L, S, T)

[illegible]

PSYCHROMETRIC SUMMARY

74-237

552

STATION 2M

STATION NAME

YEARS

MONTH

100

491

ALL
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
GSAFFAC
ATMOSPHERIC SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755	MALNSTRON AFB MT
STATION	STATION NAME

74-02

YEARS

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MON 14

Page 2

613

HOURS (L, S, T,)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point															
14 / 15		.																		4	140															
14 / 13		.																		3	130															
14 / 11		.																		1	110															
14 / 9																																				
14 / 7																																				
14 / 5																																				
14 / 3																																				
TOTAL	1.0	14.7	15.6	13.4	10.1	11.1	11.5	7.5	4.6	2.8	2.6	1.2	1.0	.6	.1	.2			7440	7440	744															

Element (X)	Z ₁	Z ₂	Z ₃	Z ₄	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	2479.373	470439	53.927.262	7447		= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	
Dry Bulb	17916863	353752	47.517.143	7447			79.6	54.7	23.4	4.3		744
Wet Bulb	11947604	292956	37.47.445	7447			144.7					744
Dew Point	6732772	218022	29.36.792	7443			509.3					744

GLOBAL CLIMATE POLICY BRANCH
CAFETAG
AIR WEATHER SERVICE /MAC

PSYCHROMETRIC SUMMARY

707755	MALMSTROM AFB MT
STATION	STATION NAME

74-83

YEARS

NCV
MONTH

PAGE : 2000-2207
HOURS (L, S, T)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
47/ 67									.1									1	1													
46/ 61										.2								2	2													
47/ 59							.1		.2									3	3													
47/ 57						.6		.4	.4									13	13													
46/ 56						.6	.7	.6	.1									17	17													
46/ 53					.4	.6	.7	.7	.1									19	19													
47/ 51				.7	.7	.7	.6	.7	.2									21	21													
47/ 49				.8	.4	.9	.8	.7										22	22													
46/ 47				.7	.7	1.1	.8											25	25	0												
47/ 45				.9	1.0	.6	.3											27	27	14												
44/ 43				1.4	1.7	1.2	.2											30	30	24												
47/ 41		.3	.6	2.1	1.7	.7	.1											46	46	31												
47/ 39	.1	.7	.9	2.2	1.2	.0												51	50	30	12											
47/ 37		.1	1.3	2.1	.9	.1												41	41	47	9											
47/ 35	.7	.3	1.7	2.2	1.1	.3												47	47	71	13											
46/ 33	.7	.0	2.2	1.1	.7													46	46	55	22											
47/ 31	.3	3.0	2.9	3.3	.													25	25	54	47											
46/ 29		1.2	2.1	1.2														37	37	75	38											
46/ 27	.7	2.3	3.1	.2														53	53	62	69											
46/ 25	.2	2.6	2.3	.2														52	52	81	77											
44/ 23	.7	1.2	1.6															30	30	67	44											
42/ 21	.4	3.2	1.3															45	45	74	102											
47/ 19	.3	1.9	.6															25	25	38	76											
46/ 17	.1	1.4																14	14	21	73											
46/ 15	.7	1.4	.1															16	16	20	76											
46/ 12	.7	2.1	.2															24	24	36	53											
42/ 11	.3	1.4	.1															17	17	23	49											
47/ 9	.1	1.3																13	13	16	31											
47/ 7		.6																5	5	9	31											
47/ 5		.4																4	4	5	13											
47/ 3	.2	.1																3	3	5	10											
47/ 1		1.3																12	12	7	9											
47/ -1	.7	.2																8	9	12	7											
-27/ -3	.2	1.2																13	13	14	5											
Element (X)	ΣX'		ΣX		Σ		Σ ₂		No. Obs.		Mean No. of Hours with Temperature																					
Rel. Hum.											≤ 0 F		≤ 32 F		≤ 67 F		≤ 73 F		≤ 80 F		≤ 93 F		Total									
Dry Bulb																																
Wet Bulb																																
Dew Point																																

GLOBAL CLIMATOLOGY BRANCH
JAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

723750 MALMSTROM AFB MT

74-87

428

STATION

STATION NAME

YEARS

MONTH

PAGE 2

1000-0000

HOURS (L, S, T,)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
-4/-6																		1	1	2	11														
-7/-9	.1																	2	2	1	5														
-10/-12	.1																	3	3	3	4														
-13/-15	.3																	4	4	4	11														
-16/-18	.1																	1	1	1	2														
-19/-21	.1																	1	1	1	2														
-22/-24																																			
-25/-27																																			
-28/-30																																			
-31/-33																																			
TOTAL	5.62	9.92	1.01	1.1	.1	4.1	4.1	1.0	1.2	.								900	900	900	900														

Element (X)	Z _X ¹	Z _X	X	C _X	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3575222	54724	60.3	16.603	900	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	1072326	28422	31.6	13.042	900	7.0	47.5					90
Wet Bulb	765971	24239	26.9	11.419	900	3.6	61.6					90
Dew Point	409239	16585	18.4	10.736	900	6.0	84.4					90

GLOBAL CLIMATOLOGY BRANCH
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AF WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

7775, CALUSTON AGE 41

4-5

454

STAT-2N

STATION NAME

YEARS

MONTH

Page 7

355-35

HOURS (L. S. T.)

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74-23

205

STATION

STATION NAME

YEARS

MONTH

PAGE

300-3500

HOURS (L - S - T -)

0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

77755 MALMSTROM AFB MT

74-83

YEARS

NOV
MONTH

PAGE 1 1400-0800
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point																
64/ 63																																				
62/ 61																																				
60/ 59																																				
58/ 57																																				
56/ 55																																				
54/ 53																																				
52/ 51																																				
50/ 49																																				
48/ 47																																				
46/ 45																																				
44/ 43																																				
42/ 41																																				
40/ 39																																				
38/ 37																																				
36/ 35																																				
34/ 33																																				
32/ 31																																				
30/ 29																																				
28/ 27																																				
26/ 25																																				
24/ 23																																				
22/ 21																																				
20/ 19																																				
18/ 17																																				
16/ 15																																				
14/ 13																																				
12/ 11																																				
10/ 9																																				
8/ 7																																				
6/ 5																																				
4/ 3																																				
2/ 1																																				
0/ -1																																				
-2/ -3																																				
Element (X)	Σ X			Σ X			Σ X			Σ X			Σ X			Σ X			Σ X			Σ X			Σ X			Σ X			Σ X			Σ X		
Rel. Hum.																																				
Dry Bulb																																				
Wet Bulb																																				
Dew Point																																				

GLOBAL CLIMATOLOGY BRANCH
UNAFETAC
ATTN: WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

7-7705 MALMSTROM AFB MT

74-87

428

STATION

STATION NAME

YEARS

MONTH

PAGE 2

7422-38: 2

HOURS 11. 5. 9.1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point												
-4/-5	.1																	1	1	3	6												
-6/-7																					17												
-8/-9	.1																	1	1	1	4												
-10/-11	.1																	1	1	1	6												
-12/-13																					17												
-14/-15	.1																	1	1	1	5												
-16/-17																					1												
-18/-19																					1												
-20/-23																					1												
-24/-25																					1												
TOTAL	7.136	421.215	118.4	8.8	3.9	3.9	1.1	.4										970	970	970	900												

Element (X)	Z _g ¹	Z _g	Z	° ₂	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3652989	55164	61.3	17.388	900	≥ 6 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1037529	27797	37.9	18.111	900	7.7	50.7					90
Wet Bulb	739755	23719	26.6	11.293	900	3.8	67.8					90
Dew Point	391540	16064	17.8	10.798	900	7.0	85.0					90

PSYCHROMETRIC SUMMARY

727755	4AL4STROM AFB MT
STATION	STATION NAME

4-83

YEARS

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MONTH

PAGE 1 2900-1100
HOURS (L. S. T.)

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PSYCHROMETRIC SUMMARY

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STATION

STATION NAME

YEARS

MONTH

PAGE 7

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HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
77-7	.4	.5																1	7	12	9			
77-1	.4	.7																7	7	7	4			
77-4	.4	.8																7	7	9	9			
77-5	.7																	7	7	8	8			
77-7		.1																1	1	6	6			
77-9	.1																	1	1	4	4			
77-11																					2			
77-13																					4			
77-15																					7			
77-19																					7			
77-21																					1			
TOTAL	4.8	22.1	4.9	13.5	14.7	11.5	9.7	4.7	3.3	1.3	.6	.3						899	899	899	899			

Element (X)	Σ x ²	Σ x	\bar{x}	σ^2	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3033681	49291	54.8	19.2	899	≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	1389049	32723	36.4	14.9	900	1.8	35.4	.7				90
Wet Bulb	926600	27066	30.1	11.1	899	2.1	49.5					90
Dew Point	446370	17806	19.8	10.2	899	4.8	85.0					97

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NCV
MONTH

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USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUL 64

PSYCHROMETRIC SUMMARY

727755	MALMSTROM AFB MT
STATION	STATION

'4-a'

NOV
MONTH

PAGE 1 1500-1700
HOURS (L. S. Y.)

[illegible][illegible]

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GLOBAL CLIMATOLOGY BRANCH
NSA/CSS
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727300 MALMSTROM AFB MT

74-87

424

STAT 201

STATION NAME

YEARS

MONTH

DATE - 10-10-1977
HOURS 11.5.77

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
67-6	.0	.1																3	8	7	1											
67-3	.1	.8																6	6	6	14											
67-1	.7	.4																7	17	7	7											
67-3	.1	.6																6	6	7	1											
67-6																					1											
67-7	.2	.1																3	3	2	7											
67-9																					1											
67-11	.1																	1	1	1	3											
67-13																					4											
67-15																					7											
67-17																					1											
67-19																					1											
67-21																					1											
TOTAL	2.218	2.117	.412	.011	.116	.012	.6	6.3	4.6	3.4	1.7	.3	.3	.1				808	809	808	808											

Element (X)	Σ X ²	Σ X	X̄	s _x	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	2525232	44337	40.4	19.379	898	≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≥ 93 F	Total
Dry Bulb	1609973	35521	39.5	15.163	899	2.7	24.2	1.6	.2			97
Wet Bulb	1624223	28645	31.4	11.498	898	2.1	43.4					97
Dew Point	448787	17875	19.9	10.181	898	3.6	84.0					97

PSYCHROMETRIC SUMMARY

74-87

YEARS

NOV
MONTH

PAGE 1 1570-2700
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
66/ 65																		7	7																
66/ 63																		7	7																
62/ 61																		7	7																
61/ 59																		11	11																
57/ 57																		14	14																
56/ 55																		15	15																
54/ 52																		28	28																
52/ 51																		27	27	1															
49/ 49																		29	29	5															
48/ 47																		34	34	9															
47/ 45																		37	37	17															
44/ 43																		27	27	31															
42/ 41																		44	44	39	5														
41/ 39																		48	48	56	4														
38/ 37																		45	45	48	7														
38/ 35																		76	76	50	1														
34/ 33																		62	62	76	19														
32/ 31																		69	69	85	51														
30/ 29																		51	51	80	55														
29/ 27																		43	43	68	76														
26/ 25																		38	38	63	74														
24/ 23																		24	24	49	49														
22/ 21																		25	25	30	71														
21/ 19																		29	29	33	84														
19/ 17																		11	11	30	49														
16/ 15																		18	18	20	64														
14/ 13																		11	11	13	63														
12/ 11																		7	7	11	56														
11/ 9																		5	5	10	41														
8/ 7																		6	6	4	31														
6/ 5																		7	7	12	9														
4/ 3																		5	5	5	12														
2/ 1																		9	9	3	13														
0/ -1																		5	5	11	7														
Element (X)	Σ x ²		Σ x		x̄		σ _x		No. Obs.		Mean No. of Hours with Temperature																								
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total												
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

PSYCHROMETRIC SUMMARY

74-87

408

STATION

STATION NAME

YEARS

MONTH

541 - 2

14-00000-2000

HOURS (L, S, T,)

Element (X)	Z_X'	Z_X	X	σ_X	No. Obs.	Mean No. of Hours with Temperature					
Rel. Hum.	3171877	51.53	56.917.236	897	$\leq 60^\circ$	$\leq 72^\circ$	$\leq 84^\circ$	$\leq 96^\circ$	Total		
Dry Bulb	1205437	30.411	33.913.052	897	2.3	38.3			90		
Wet Bulb	336504	28.511.034	28.511.034	897	2.9	56.7			90		
Dew Point	421476	16924	19.910.678	897	5.3	85.5			90		

USAFETAC FORM 0.26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 CHAFETAC
 AND WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

27750 MALMSTROM AFB MT
STATION STATION NAME

74-83

YEARS

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MONTH

PAGE 2 2100-2320
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

7-7255 VAL'STROM AFP MT

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NCV

STATION

STATION NAME

YEARS

MONTH

PAGE

71-0-2300

HOURS 11, 5, 9.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
-1/-5	.5																						
-1/-7	.5																						
-1/-9	.5																						
-1/-11	.5																						
-1/-13	.5																						
-1/-15	.5																						
-1/-17	.5																						
-1/-19	.5																						
-1/-21	.5																						
-1/-23	.5																						
-1/-25	.5																						
-1/-27	.5																						
-1/-29	.5																						
TOTAL	7.52	7.22	6.18	4.12	3.0	2.1	4.1	2.0	0.0	0.4									897		897		

2

1

74-97

YEARS

NOV
MONTH

PAGE 2

311
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
JAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

7-7755. MALMSTROM AFB MT

74-87

258

STATION

STATION NAME

YEARS

MONTH

2434

611

HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
67-5	.1	.3																71	31	59	85														
67-0	.2	.7																64	64	49	83														
71-1	.3	.3																72	72	49	84														
71-1	.5	.7																67	67	60	54														
77-3	.1	1.7																78	70	73	63														
77-0	.1	.0																8	8	7	57														
77-7	.1	.7																7	7	4	57														
77-0	.1																	7	7	12	37														
77-11	.7																	11	11	11	41														
77-13	.1																	4	4	4	57														
77-15	.																	7	7	3	24														
77-17	.7																	7	7	2	7														
77-19	.1																	4	4	4	17														
77-21	.0																	7	7	2	17														
77-23																					4														
77-25																					4														
77-26																					7														
77-27																					1														
TOTAL	4.9	14.8	17.1	5.1	5.1	5.0	6.7	4.7	2.3	1.7	.4	.0	.1	.				7189	7100	7189															
																					7189		7189												

2
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YEARS

73-82

DEC
MONTH

PAGE 1 CONFIDENTIAL
HOURS (L. S. T.)

FORM 0-26-5 (OL A)
REVISED PREVIOUS EDITIONS OF : FORM ARE OBSOLETE

USAFETAC

2

PSYCHROMETRIC SUMMARY

DS C

MONTH

7520-0200

HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
7/-11	1.																	0	0	9	7				
7/-13	.7																	3	3	3	2				
7/-15	.2																	2	2	2	2				
7/-17	.3																	3	3	3	4				
7/-19	.6																	6	6	6	23				
7/-21	.2																	2	2	0	5				
7/-23	.1																	1	1	1	2				
7/-25	.2																	2	2	2	5				
7/-27	.1																	1	1	1					
7/-31																					4				
7/-33																					1				
7/-35																					1				
7/-37																					1				
TOTAL	12.6	29.5	22.0	18.0	11.6	5.6	1.8	1.0										937	233	937	937				

Element (X)	Σ X ²	Σ X	X̄	s _x	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3847967	58787	62.5	15.416	937	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	855251	24777	25.9	15.220	937	8.1	59.7					937
Wet Bulb	671272	20552	22.1	13.411	937	8.9	72.2					937
Dew Point	337288	12912	13.9	13.242	937	12.4	90.2					937

2

YEARS

११-५०

DEC
MONTH

PAGE 1 0300-0500
HOURS (L. S. T.)

[illegible]

2

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73-37

DEC

STATION

STATION NAME

YEARS

MONTH

2457

0370-2500

HOURS (L, S, T, I)

USAFETAC FORM 0-26-5 (OLA)
REV. 4-4
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

727755	MALMSTROM AFB MT
STATION	STATION NAME

75-87

YEARS

DEC
MONTH

PAGE 1 2650-6800
HOURS (L. S. T.)

[illegible]

0-26-5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

2

1

73-22

05C

STATION

STATION NAME

YEARS

MONITOR

PAGE 2

767C-0800
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
11/-11	.9																	8	8	8	5				
12/-13	.4																	4	4	4	7				
14/-15	.8																	3	3	3	6				
16/-17	.2																	2	2	2	4				
18/-19	.5																	5	5	5	12				
20/-21	.3																	3	3	3	8				
22/-23	.2																	2	2	2	5				
24/-25	.5																	5	5	5	2				
26/-27																					4				
28/-29																					4				
30/-31																					3				
32/-33																					6				
34/-35																					1				
36/-37																					1				
TOTAL	14.7	31.8	18.7	15.6	10.9	3.2	3.5	1.7	.3									930	930	930	930				

Element (X)	Σ X'	Σ X	X	Σ x	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3939046	58694	63.1	15.997	930	≤ 6 F	≤ 30 °	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	840281	23497	25.3	16.298	930	8.3	58.4					93
Wet Bulb	610198	20080	21.6	13.789	930	9.0	72.1					93
Dew Point	337251	12529	13.5	13.466	930	11.5	90.5					93

PSYCHROMETRIC SUMMARY

72-67

nf

STATION

STATION NAME

YEARS

MONTH

PAGE 2 09-0-11-1

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point															
-7/-9	.4	.2																6	6	10	5															
-7/-11	1.0																	9	9	13	6															
-7/-13	.1																	1	1	1	7															
-7/-15	.4																	4	4	4	6															
-7/-17	.2																	2	2	2	18															
-7/-19	.2																	2	2	2	17															
-7/-21																					8															
-7/-23	.5																	5	5	5	13															
-7/-25	.3																	3	3	3	13															
-7/-27																					5															
-7/-29																					5															
-7/-31																					1															
-7/-33																					4															
-7/-35																					1															
TOTAL	11.277	6.15	5.517	4.17	5.0	7.7	5.2	1.7	.6	.1								930		93																

Element (X)	Z _g	Z _x	X	c _a	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3579225	55513	59.7	16.908	937	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	1011876	26540	28.5	16.551	937	6.8	49.9					97
Wet Bulb	715871	22339	24.0	13.695	937	7.2	64.6					93
Dew Point	368546	13984	15.3	13.253	937	9.9	90.1					93

PSYCHROMETRIC SUMMARY

13-32

STATION

STATION NAME

YEARS

450

MONTH

PAGE 2 100-14
HOURS (L. S. T.)

[illegible]

USAFETAC
FORM
NA 44
0-26-5 (OLA)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

WALNSTROM AFB MONTANA REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBSERVAT..(U) AIR FORCE ENVIRONMENTAL
TECHNICAL APPLICATIONS CENTER SCOTT A.. FEB 84
USAFETAC/DS-84/007 SBI-AD-EB50 615 F/G 4/2

66

UNCLASSIFIED

F/G 4/2

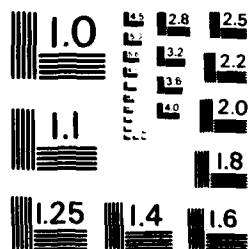
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01/04/2012

20



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS - 1963-A

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT

72-82

250

STAT 200

STATION NAME

YEARS

MON T H

PAGE 1 1500-1700
HOURS (L. S. T.)

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb	Dew Point															
67/ 61										.1		.2						3	3																
67/ 59										.1		.1						3	3																
67/ 57							.7	.1	.2	.1								7	7																
66/ 55							.6	.4	.3	.3	.1							17	17																
64/ 53							.8	.3	.4	.5	.2							21	21																
62/ 51						.1	1.0	.5	1.1	.1								26	26																
61/ 49						.6	1.2	1.1	.2	.2								33	33																
66/ 47				.5	.8	.9	.8	.5										32	32	3															
66/ 45			.1	.8	1.0	1.5	1.4	.1										53	53	15															
60/ 43				.4	1.1	2.4	.3											39	39	17															
67/ 41			.9	1.3	2.5	1.7	.3											62	62	36															
60/ 39		.2	.3	1.8	2.2	.6												58	58	31															
70/ 37		.1	1.1	1.8	2.4	1.1												60	60	58	3														
76/ 35	.1	.2	.8	2.5	1.2	.2												44	44	68	20														
74/ 33		.1	1.2	2.9	.6	.3												48	48	90	12														
72/ 31	.3	1.0	3.4	2.4	.6													72	72	79	34														
70/ 29		1.9	1.4	1.8	.3													51	51	73	47														
68/ 27	.1	1.5	1.7	.4														35	35	93	36														
76/ 25	.3	1.1	1.5	.2														29	29	55	54														
74/ 23	.1	.9	1.2															20	20	52	51														
72/ 21	.4	1.2	1.1															25	25	40	97														
70/ 19	.3	1.2	.2															16	16	19	111														
78/ 17	.2	.5																7	7	17	73														
76/ 15	.3	1.3																15	15	13	67														
74/ 13	.1	.8																8	8	8	49														
72/ 11	.1	1.9																19	19	13	64														
70/ 9		1.4																13	13	18	31														
68/ 7	.4	1.5																18	18	15	22														
66/ 5	.5	.6																11	11	21	19														
64/ 3	.4	.4																8	8	9	25														
77/ 1	.4	1.6																19	19	13	26														
67/ -1	.4	.8																11	11	11	6														
-2/ -3	.4	.8																11	11	15	10														
-4/ -5	.2	.5																7	7	4	6														
Element (X)	Σx ²		Σx		Σ		Σ ²		No. Obs.		Mean No. of Hours with Temperature																								
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total												
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

PSYCHROMETRIC SUMMARY

73-87

DE C

STATION

STATION NAME

YEARS

MONTH

DATE

1507-17.2

HOURS (L, S, T, I)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
-6/-7	.5																	1	1		4			
-8/-9	.3																	3	3	6	1			
-7/-13	.5																	2	2	5	5			
-7/-13	.1																	1	1	1	6			
-4/-15	.2																	2	2	2	5			
-6/-17	.2																	2	2	2	5			
-8/-19	.3																	3	3	3	9			
-7/-21	.1																	1	1	1	6			
-7/-23	.1																	1	1	1	7			
-4/-25	.1																	1	1	1	5			
-6/-27																					4			
-8/-29																					7			
-7/-33																					1			
-4/-35																					2			
TOTAL	8.22	14.81	6.91	5.31	2.6	5.2	3.0	1.4	.6	.1								93	93	93	93			

PSYCHROMETRIC SUMMARY

DEC
MONTH

1900-2000
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point															
62/ 61									.1									1	1																	
61/ 59								.1										1	1																	
60/ 57							.1											1	1																	
59/ 55						.4	.1											5	5																	
58/ 53						.7	.4	.2										8	8																	
57/ 51						.5	.3	.4										12	12																	
56/ 49					.5	.9	.5	.1	.1									20	20																	
55/ 47				.5	1.3	.6	.9	.1	.1									34	34																	
54/ 45			.1	.6	1.2	.7	.5	.1										27	27	7																
53/ 43				1.0	1.1	.4	.2											25	25	9																
52/ 41			.5	1.3	2.3	.6	.1											45	45																	
50/ 39			1.1	1.9	1.1	.4	.1											43	43	36																
49/ 37		.1	1.1	2.2	2.0	.3												61	61	40	1															
48/ 35		.1	1.3	3.7	1.7	.1												75	72	48	5															
46/ 33		.2	1.8	3.1	.4													52	52	58	17															
45/ 31	.1	1.3	3.4	2.8	.5	.1												73	73	65	42															
44/ 29		.8	3.8	1.4	.2													57	57	97	73															
43/ 27		1.4	3.2	1.2	.1													53	52	63	36															
42/ 25	.5	1.2	2.3	.4														42	42	80	51															
41/ 23	.1	1.0	1.0															19	19	6	51															
40/ 21	.4	2.4	1.4	.2														41	41	51	74															
39/ 19	1.1	2.8	.1	.1														38	38	41	121															
38/ 17	.1	.2	.1															17	17	32	93															
36/ 15	.3	1.9																21	21	16	67															
34/ 13		1.1																10	10	14	46															
32/ 11		1.2																18	18	15	52															
31/ 9	.2	1.6																17	17	23	47															
30/ 7	.2	.4																6	6	12	42															
29/ 5	.4	1.1																14	14	14	17															
28/ 3	.6	.8																13	13	18	21															
27/ 1	.4	1.5																12	12	12	19															
26/ -1	.6	1.1																16	16	12	15															
-2/ -3	.6	.9																14	14	19	9															
-4/ -5	.5	.3																8	8	15	11															
Element (X)	Σ X'	Σ X	Σ	Σ	No. Obs.	Mean No. of Hours with Temperature																														
Rel. Hum.						± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	Total																								
Dry Bulb																																				
Wet Bulb																																				
Dew Point																																				

PSYCHROMETRIC SUMMARY

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STATION

STATION NAME

YEARS

MONTH

PAGE 2

14-00000-2-000

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
-7/-9	.1	.6																7	7	4	5														
-7/-9	1.0																	9	9	5	5														
-7/-11	.4																	4	4	4	1														
-7/-13																																			
-7/-15	.1																	1	1	1	9														
-7/-17	.5																	5	5	5	4														
-7/-19	.5																	8	8	8	12														
-7/-21																																			
-7/-25																																			
-7/-27	.1																	1	1	1	3														
-7/-29																																			
-7/-31	.1																	1	1	1	1														
-7/-33	.1																	1	1	1	1														
-7/-35																																			
-7/-39																																			
-7/-45																																			
TOTAL	9.925	321.819	717.5	5.1	3.5	1.1	.5											970	970	970	937														

Element (X)	Σ x ¹	Σ x	Σ	Σ _n	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	3586687	55864	67.1	15.769	937	≥ 6 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	944436	25728	27.7	15.826	930	7.5	52.5					97
Wet Bulb	674681	21763	23.4	13.343	939	8.1	71.0					97
Dew Point	354086	13522	14.5	13.720	936	11.6	90.7					93

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STATION NAME

YEARS

DEC
MONTH

PAGE 2 2100-2300
HOURS (L. S. T.)

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUL 64

YEARS

7.7735	MALMSTROM AFB MT
STATION	STATION NAME

7-3-62

D5C

MONTH

Page 2

71-27-2132

HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
77/-17																			3	3	3	6													
77/-15	.3																		4	4	4	7													
77/-13	.3																		6	6	6	12													
77/-11	.6																		2	2	2	5													
77/-9	.1																		1	1	1	2													
77/-7																																			
77/-5																																			
77/-3	.1																		1	1	1	2													
77/-1																																			
77/1																																			
77/3																																			
77/5																																			
77/7																																			
77/9																																			
77/11																																			
77/13																																			
77/15																																			
77/17																																			
77/19																																			
77/21																																			
77/23																																			
77/25																																			
77/27																																			
77/29																																			
77/31																																			
77/33																																			
77/35																																			
77/37	.1																		1	1	1	2													
77/39																																			
TOTAL	17.328	518.821	410.0	4.3	3.4	.8													670	930	930														

PSYCHROMETRIC SUMMARY

YEARS

MONTH

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ALL
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point												
-6/-7	.6	.4																76	75	78	65												
-8/-9	.3	.0																51	61	95	54												
-10/-11	.7																	55	55	57	67												
-12/-13	.1																	9	9	9	33												
-14/-15	.3																	25	25	25	59												
-16/-17	.3																	22	22	22	63												
-18/-19	.4																	23	23	33	70												
-20/-21	.2																	13	13	13	45												
-22/-23	.2																	15	15	15	21												
-24/-25	.2																	14	14	14	28												
-26/-27	.0																	3	3	3	21												
-28/-29																					21												
-30/-31	.7																	5	5	5	6												
-32/-33	.0																	1	1	1	27												
-34/-35																					15												
-36/-37	.0																	1	1	1	5												
-38/-39																					5												
-40/-45																					1												
TOTAL	11.4	26.9	17.8	17.4	12.6	7.7	4.1	1.0	.6	.3	.0							7440	7440	7440													

Element (X)	Σx'	Σx	Σ	σ _n	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	28698076	445258	59.8	16.604	7447	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	7797874	207496	27.9	16.442	7443	50.7	417.4					744
Wet Bulb	488317	174749	23.5	13.639	7443	64.5	541.8					744
Dew Point	2834823	168027	14.5	13.747	7447	88.6	721.6					744

PSYCHROMETRIC SUMMARY

YEARS

MONTH

PAGE 2

ALL

HOURS (L. S. T.)

[illegible]

FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETYAC

PSYCHROMETRIC SUMMARY

73-87

YEARS

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LONTM

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ALL
HOURS (L.S.T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

727755 MALMSTROM AFB MT

73-87

STATION		STATION NAME												YEARS													
HRS		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL	
00-02		MEAN	18.3	24.9	29.3	38.0	46.1	53.8	59.8	58.9	50.6	42.4	31.6	25.9	40.0												
		S.D.	17.51515.53812.06910.155	7.677	6.545	5.765	6.739	8.578	9.28513.94215.870	17.713																	
		TOTAL OBS	930	846	930	970	930	859	930	930	900	930	970	930	17954												
03-05		MEAN	17.9	24.2	28.1	35.9	44.7	51.7	56.8	55.9	48.1	40.9	31.0	25.4	38.4												
		S.D.	17.61915.73811.854	9.490	7.228	6.214	5.582	6.332	9.476	9.47614.07116.329	17.041																
		TOTAL OBS	930	846	930	970	930	900	930	930	900	930	970	930	17954												
06-08		MEAN	17.8	23.8	28.6	38.2	47.8	57.0	62.2	59.1	49.6	41.1	30.9	25.3	40.2												
		S.D.	17.38315.90212.12810.608	7.986	7.125	6.277	7.033	9.189	9.84114.11116.293	18.600																	
		TOTAL OBS	930	846	930	900	930	900	930	930	900	930	970	930	17954												
09-11		MEAN	20.6	28.2	35.3	46.9	55.4	65.2	72.1	69.4	60.6	50.5	36.4	28.5	47.9												
		S.D.	17.86517.11013.83212.878	9.852	8.718	7.374	8.59011.46211.52414.88816.551	21.215																			
		TOTAL OBS	930	846	930	900	930	900	930	930	900	930	970	930	17954												
12-14		MEAN	25.3	32.8	40.3	52.0	60.1	70.1	78.0	75.9	67.3	56.5	41.2	32.9	52.4												
		S.D.	18.39817.48614.32913.85811.079	9.643	8.135	9.78212.60012.26015.43716.750	22.050																				
		TOTAL OBS	930	846	930	900	929	900	930	930	900	930	899	970	17954												
15-17		MEAN	24.7	33.3	41.0	53.3	60.9	71.1	79.6	77.7	68.8	56.3	39.5	31.4	53.2												
		S.D.	18.16617.11514.11414.04211.247	9.759	8.78910.23812.81712.02415.16316.370	22.696																					
		TOTAL OBS	930	846	930	900	930	859	930	930	900	930	899	970	17954												
18-20		MEAN	20.7	28.4	35.5	48.3	56.9	66.8	74.6	72.1	61.3	48.5	33.9	27.7	48.1												
		S.D.	17.14715.67812.58812.81010.258	9.134	8.401	9.69111.53710.05813.95215.826	21.771																				
		TOTAL OBS	930	846	930	900	930	900	930	930	900	930	897	970	17953												
21-23		MEAN	19.6	25.9	31.1	41.6	49.5	58.5	65.3	63.2	53.7	44.2	32.0	26.1	42.6												
		S.D.	17.32415.41011.74910.876	8.137	7.343	6.514	7.467	9.155	9.36213.96315.927	18.954																	
		TOTAL OBS	930	846	930	900	930	900	930	930	900	930	897	970	17953												
ALL HOURS		MEAN	20.6	27.7	33.7	44.3	52.6	61.8	68.5	66.5	57.5	47.5	34.6	27.9	45.3												
		S.D.	17.88716.61913.73713.50811.119	10.77010.84411.44813.04812.14314.92916.442	20.842																						
		TOTAL OBS	7440	6768	7440	7200	7439	7198	7440	7440	7200	7440	7192	7440	87637												

USAF ETAC FORM 0-89-5 (OL A)
OCT 78

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

727755 MALMSTROM AFB MT

73-83

STATION		STATION NAME												YEARS											
HRS LST		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL											
00-02	MEAN	15.4	21.4	25.8	32.8	40.9	47.6	52.0	50.7	43.4	36.6	26.9	22.1	34.7											
	S D	15.468	13.505	10.417	7.759	5.967	5.372	4.777	4.797	5.747	6.536	11.219	13.411	15.192											
	TOTAL OBS	930	846	930	900	929	899	930	930	900	930	900	930	10954											
03-05	MEAN	15.1	20.8	24.9	31.5	39.4	46.2	50.4	49.1	42.0	35.6	26.5	21.7	33.7											
	S D	15.609	13.781	10.282	7.510	5.845	5.149	4.838	4.865	5.925	6.667	11.298	13.850	14.913											
	TOTAL OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956											
06-08	MEAN	15.1	20.5	25.2	33.2	42.0	49.7	53.7	51.2	43.7	35.8	26.4	21.6	34.8											
	S D	15.469	14.224	10.476	8.142	5.957	5.075	4.559	4.787	6.136	6.872	11.293	13.749	15.856											
	TOTAL OBS	930	846	930	900	930	900	929	930	900	930	900	930	10955											
09-11	MEAN	17.3	23.6	29.6	38.0	45.8	53.4	57.9	56.0	48.9	41.3	30.1	24.7	38.9											
	S D	15.493	14.331	10.661	8.517	6.166	5.417	4.493	4.551	6.266	6.945	11.154	13.695	16.426											
	TOTAL OBS	930	846	930	900	930	900	930	930	900	930	899	930	10955											
12-14	MEAN	20.6	26.7	32.5	40.4	47.7	55.0	59.7	57.9	51.4	44.1	32.9	27.7	41.4											
	S D	15.236	13.838	10.199	8.436	6.275	5.497	4.489	4.611	6.393	6.959	11.079	13.310	15.929											
	TOTAL OBS	930	846	929	899	929	900	930	930	898	930	898	930	10949											
15-17	MEAN	20.2	27.1	32.9	41.0	48.0	55.2	59.8	58.0	51.6	44.0	31.9	25.9	41.4											
	S D	15.119	13.519	9.983	8.357	6.189	5.476	4.481	4.453	6.361	6.791	11.098	13.197	16.041											
	TOTAL OBS	930	846	929	900	930	899	930	930	900	930	898	930	10952											
18-20	MEAN	17.4	24.1	29.9	38.7	46.4	54.0	58.4	56.0	48.3	40.0	28.5	23.4	38.8											
	S D	14.994	13.132	9.865	8.183	6.132	5.531	4.651	4.499	6.342	6.399	11.034	13.343	16.360											
	TOTAL OBS	929	846	930	900	930	900	930	930	900	930	897	930	10952											
21-23	MEAN	16.5	22.3	27.2	35.1	42.8	50.3	54.6	52.6	44.4	37.7	27.2	22.2	36.2											
	S D	15.226	13.348	10.001	7.878	5.863	5.333	4.733	4.618	5.835	6.427	11.188	13.497	15.629											
	TOTAL OBS	930	846	930	899	930	900	930	930	900	930	897	930	10952											
ALL HOURS	MEAN	17.2	23.3	28.5	36.4	44.1	51.4	55.8	53.9	46.7	39.4	28.8	23.5	37.5											
	S D	15.456	13.886	10.656	8.791	6.763	6.257	5.731	5.670	7.103	7.445	11.412	13.639	16.056											
	TOTAL OBS	7439	6768	7438	7198	7438	7198	7439	7440	7198	7440	7189	7440	87625											

USAF ETAC FORM OCT 78 0-89-3 (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/HAC

MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

727755 MALMSTROM AFB MT

73-83

STATION

STATION NAME

YEARS

HRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
00-02	MEAN 6.7	13.3	18.7	25.2	34.6	41.6	45.2	43.2	35.4	29.8	18.4	13.9	27.1
	S D 16.328	14.765	10.931	7.464	7.271	6.877	6.951	6.385	6.502	6.668	10.736	13.042	15.947
	TOTAL OBS 930	846	930	930	929	899	930	930	900	930	900	930	10954
03-05	MEAN 6.4	12.8	17.9	24.7	33.8	40.7	44.6	42.7	35.1	28.3	18.2	13.5	26.6
	S D 16.514	14.467	10.843	7.320	7.020	6.523	6.585	6.172	6.330	6.680	10.707	13.561	15.909
	TOTAL OBS 930	846	930	900	930	900	930	930	900	930	900	930	10956
06-08	MEAN 6.6	12.5	18.2	25.9	35.4	42.9	46.7	44.3	35.9	28.4	17.8	13.5	27.4
	S D 16.424	14.821	10.763	7.603	6.857	6.362	6.283	5.925	6.109	6.778	10.798	13.466	16.504
	TOTAL OBS 930	846	930	900	930	900	929	930	900	930	900	930	10955
09-11	MEAN 8.2	14.3	19.9	26.6	35.6	43.2	47.2	45.3	37.6	31.5	19.8	15.0	28.7
	S D 16.064	14.355	10.216	7.738	7.217	7.007	6.892	5.911	5.991	6.462	10.215	13.053	16.064
	TOTAL OBS 930	846	930	900	930	900	930	930	900	930	899	930	10955
12-14	MEAN 10.0	15.5	20.2	25.9	35.0	42.5	46.1	44.1	36.6	31.1	20.3	16.3	28.6
	S D 15.050	13.359	9.645	7.743	7.619	7.541	7.602	6.442	6.535	6.722	9.771	12.334	15.197
	TOTAL OBS 930	846	929	899	929	900	930	930	898	930	898	930	10949
15-17	MEAN 9.5	15.8	20.3	25.6	34.6	42.0	45.0	42.6	35.5	29.8	19.9	15.7	28.1
	S D 15.147	13.011	9.608	7.920	7.915	7.881	8.001	6.574	7.048	7.010	10.181	12.521	15.051
	TOTAL OBS 930	846	929	900	930	899	930	930	900	930	898	930	10952
18-20	MEAN 8.2	15.0	20.4	26.0	35.2	43.1	46.0	42.9	35.5	29.5	18.9	14.5	28.0
	S D 15.642	13.367	10.018	8.079	8.043	8.164	8.299	6.836	7.022	6.870	10.678	13.020	15.776
	TOTAL OBS 929	846	930	900	930	900	930	930	900	930	897	930	10952
21-23	MEAN 7.6	14.3	19.6	26.0	35.1	42.7	46.0	43.3	35.4	29.0	18.4	13.8	27.7
	S D 16.109	13.780	10.580	7.738	7.598	7.365	7.349	6.621	6.796	6.816	10.688	13.078	15.993
	TOTAL OBS 930	846	930	899	930	900	930	930	900	930	897	930	10952
ALL HOURS	MEAN 7.9	14.2	19.4	25.7	34.9	42.3	45.9	43.5	35.9	29.3	19.0	14.5	27.6
	S D 15.961	13.956	10.374	7.719	7.469	7.274	7.318	6.425	6.596	6.792	10.507	13.047	15.825
	TOTAL OBS 7439	6768	7438	7198	7438	7198	7439	7440	7198	7440	7189	7440	87625

USAF ETAC FORM OCT 78 0-89.3 (OLA)

RELATIVE HUMIDITY

PERIOD

JULY
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	00-02	100.0	100.0	99.5	95.2	78.4	51.2	26.3	8.1	1.9	61.6	930
	03-05	100.0	100.0	99.1	95.8	77.6	54.1	25.8	8.9	2.4	61.9	930
	06-08	100.0	100.0	99.1	95.1	81.4	54.6	26.3	9.8	2.5	62.5	930
	09-11	100.0	100.0	97.7	90.6	74.6	47.3	24.3	9.5	4.1	60.3	930
	12-14	100.0	99.7	93.8	79.9	61.5	34.3	16.3	4.4	.9	54.6	930
	15-17	100.0	99.1	94.6	81.4	61.0	33.9	14.7	3.5	.8	54.5	930
	18-20	100.0	100.0	98.5	91.8	74.3	48.7	27.5	5.9	1.6	59.7	929
	21-23	100.0	100.0	98.9	93.0	76.2	48.2	24.2	6.7	1.8	60.7	930
TOTALS		100.0	99.9	97.7	90.4	73.1	46.5	22.3	7.1	2.0	59.5	7439

FORM 35 (4)

0-87.5 (OL A)

RELATIVE HUMIDITY

PERIOD

259
MONIN

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	00-02	100.0	99.6	99.1	95.6	81.0	54.5	27.9	10.2	3.1	62.8	846
	03-05	100.0	99.6	98.7	94.9	82.3	57.9	28.5	9.8	2.6	63.1	846
	06-08	100.0	99.6	98.2	95.2	83.7	58.9	29.3	10.9	1.8	63.4	846
	09-11	100.0	99.4	96.5	97.1	67.3	44.8	23.8	9.3	1.4	59.4	846
	12-14	100.0	97.8	89.5	72.0	52.2	33.3	16.1	5.9	1.2	52.4	846
	15-17	100.0	98.0	88.8	72.3	50.1	32.4	16.5	5.3	.6	52.0	846
	18-20	100.0	99.8	97.0	90.0	70.7	44.0	23.3	8.3	1.7	59.0	846
	21-23	100.0	100.0	99.3	95.3	82.0	55.0	26.8	10.5	2.4	62.8	846
TOTALS		100.0	99.2	95.9	87.8	71.2	47.6	24.2	8.8	1.9	59.2	6768

USAFETAC FORM 0-87-5 (OL A)

RELATIVE HUMIDITY

PERIOD

MAR
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAR	01-02	100.0	100.0	99.5	96.3	87.1	64.2	38.1	18.8	7.3	66.2	937
	03-05	100.0	100.0	99.5	95.7	86.5	64.6	42.6	21.1	7.6	67.2	937
	06-08	100.0	100.0	99.9	95.5	84.1	64.4	40.0	21.5	7.8	66.8	930
	09-11	100.0	99.1	92.8	76.0	60.3	40.2	26.9	13.5	3.5	56.8	937
	12-14	100.0	96.4	77.7	59.1	43.9	28.4	17.8	8.5	1.8	48.9	929
	15-17	100.0	94.8	74.9	57.3	40.8	28.5	17.0	7.1	1.5	47.9	929
	18-20	100.0	99.9	92.3	78.9	61.3	43.2	26.3	11.4	2.8	57.2	930
	21-23	100.0	100.0	99.4	94.0	78.7	55.7	34.3	18.0	5.2	64.2	930
TOTALS		100.0	98.8	91.9	91.6	67.3	48.7	30.4	15.0	4.7	59.4	7438

USAFETAC FORM 0-87-5 (OL A)
JUL 84

RELATIVE HUMIDITY

PERIOD

MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	01-12	100.0	100.0	99.4	99.2	72.2	50.8	31.0	17.6	7.7	62.4	900
	03-15	100.0	100.0	99.9	95.3	81.6	61.0	36.8	19.9	9.8	65.8	900
	06-08	100.0	99.9	99.8	91.9	76.4	55.0	34.0	18.1	7.6	63.7	900
	09-11	100.0	97.6	81.4	58.7	39.9	29.0	16.6	10.1	3.2	49.2	900
	12-14	100.0	88.8	60.1	40.5	27.4	20.4	11.7	5.7	1.4	41.0	899
	15-17	100.0	83.0	53.7	37.6	25.2	18.3	10.1	4.2	1.6	39.1	900
	18-20	100.0	93.1	71.9	52.2	36.4	26.7	17.0	9.2	2.0	46.6	900
	21-23	100.0	99.8	94.8	79.1	56.3	38.0	25.4	14.1	4.6	56.8	899
TOTALS		100.0	95.3	82.4	68.1	51.9	37.4	22.7	12.4	4.6	53.1	7198

USAFETAC FORM 0-87-5 (OL A)

RELATIVE HUMIDITY

PERIOD

44
MAY
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	00-02	100.0	99.9	98.3	93.8	87.0	60.0	43.1	21.7	8.5	66.2	929
	03-05	100.0	100.0	99.0	95.9	86.5	69.4	48.5	25.6	9.7	69.1	930
	06-08	100.0	100.0	99.3	92.7	75.5	57.6	37.2	19.4	7.7	64.4	930
	09-11	100.0	98.9	87.5	61.1	41.7	29.2	19.7	10.4	3.2	50.8	930
	12-14	99.9	95.4	64.8	42.3	25.3	20.6	13.7	7.2	3.1	43.3	929
	15-17	100.0	89.7	61.7	40.5	28.4	20.3	12.9	7.9	2.9	42.1	930
	18-20	100.0	96.0	75.9	55.6	35.2	28.5	19.4	10.1	3.9	48.6	930
	21-23	100.0	100.0	94.9	94.5	64.4	48.9	34.0	18.4	6.5	60.7	930
TOTALS		100.0	97.5	85.1	70.8	55.6	41.8	28.6	15.1	5.7	55.7	7438

USAFETAC FORM 0-87-5 (OL A)

RELATIVE HUMIDITY

PERIOD

JUN
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	00-02	100.0	99.8	99.4	94.8	81.9	60.2	36.4	17.0	4.1	55.1	899
	03-05	100.0	100.0	99.6	96.2	87.0	68.1	43.8	20.1	4.4	67.6	900
	06-08	100.0	100.0	98.4	90.6	77.3	47.9	29.6	12.6	3.3	61.3	900
	09-11	100.0	98.3	87.4	60.1	36.7	20.4	11.0	3.2	.7	47.5	900
	12-14	100.0	92.4	68.4	40.4	21.4	11.1	5.3	1.6	.4	39.7	900
	15-17	100.0	90.3	62.3	35.3	17.8	10.1	5.3	1.7	.2	39.0	899
	18-20	100.0	95.7	78.9	52.9	32.9	21.1	12.0	5.2	1.2	45.7	900
	21-23	100.0	99.4	94.7	84.1	66.8	43.4	26.0	11.2	1.9	58.4	900
TOTALS		100.0	97.0	86.1	69.3	52.1	35.3	21.2	9.1	2.1	52.9	7198

USAFETAC FORM 0-87-5 (OL A)

RELATIVE HUMIDITY

PERIOD

JUL
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	00-02	100.0	99.9	99.7	99.5	72.5	47.1	25.3	10.1	2.7	67.2	930
	03-05	100.0	100.0	99.8	95.7	82.6	63.7	35.6	14.2	3.2	65.1	930
	06-08	100.0	100.0	99.6	88.4	68.1	43.5	23.8	8.2	1.8	59.0	929
	09-11	100.0	98.0	80.0	51.9	27.2	12.6	5.8	1.6	.2	43.4	930
	12-14	100.0	86.7	55.2	28.4	13.5	7.3	2.9	.5	.2	35.0	930
	15-17	99.9	78.4	42.5	24.4	12.7	7.0	2.4	.3	.1	32.5	930
	18-20	100.0	88.3	65.1	41.3	24.6	14.1	6.1	1.7	.2	39.7	930
	21-23	100.0	99.4	91.5	75.1	49.8	31.6	14.5	4.8	.6	52.7	930
TOTALS		100.0	93.8	78.9	61.8	43.9	28.4	14.6	5.2	1.1	48.5	7439

USAPETAC FORM 0-87-5 (OL A)

RELATIVE HUMIDITY

AUG
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
AUG	00-02	100.0	100.0	99.0	97.0	61.0	41.2	25.3	8.4	1.2	58.0	930
	03-05	100.0	100.0	99.4	94.3	77.7	53.1	33.1	13.8	1.6	63.0	930
	06-08	100.0	99.9	98.0	99.9	70.3	46.0	27.2	10.5	.9	60.0	930
	09-11	100.0	97.6	87.7	52.3	30.4	17.2	7.8	2.8	.1	44.7	930
	12-14	100.0	86.7	52.7	27.2	14.7	7.6	4.0	1.7	.1	35.1	930
	15-17	99.7	76.7	47.0	23.3	11.9	7.0	3.2	1.2		31.8	930
	18-20	99.9	88.1	59.5	36.6	22.4	13.5	7.5	2.3		38.6	930
	21-23	100.0	99.1	90.2	68.4	46.1	28.7	15.9	5.7		51.0	930
TOTALS		100.0	93.5	77.6	59.9	41.8	26.8	15.5	5.9	.5	47.8	7440

0-87-5 (OL A)

RELATIVE HUMIDITY

SFD
MONITOR

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	00-02	100.0	99.8	95.7	92.4	64.4	45.2	27.7	13.0	5.2	59.0	900
	03-05	100.0	99.7	97.8	93.3	75.3	54.1	35.6	19.2	6.2	63.4	900
	06-08	100.0	99.6	96.4	88.3	71.4	51.4	33.4	18.2	5.1	62.2	900
	09-11	100.0	95.8	78.7	52.7	34.9	21.9	14.9	7.6	2.7	46.5	900
	12-14	99.8	83.6	49.3	28.3	19.9	13.9	7.7	4.2	.9	36.3	898
	15-17	99.3	75.2	41.7	24.0	15.4	11.9	7.8	3.9	1.1	33.6	900
	18-20	100.0	92.1	68.1	42.9	26.4	17.2	13.0	7.3	1.7	42.4	900
	21-23	100.0	99.4	89.9	70.4	47.7	32.0	21.0	12.1	3.4	53.4	900
TOTALS		99.9	93.2	77.2	59.9	44.4	31.0	20.0	10.8	3.2	49.6	7198

USAFETAC FORM 0-87-5 (OL A)

RELATIVE HUMIDITY

PERIOD

30T
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
DEC	00-22	100.0	99.8	96.3	95.6	68.6	57.0	33.1	18.2	4.8	51.5	933
	03-05	100.0	99.9	96.9	88.7	74.6	57.7	37.7	20.5	6.1	63.7	937
	06-08	100.0	99.7	95.9	86.6	73.4	57.6	39.6	22.8	6.9	63.7	937
	09-11	100.0	96.7	82.4	63.4	47.7	29.8	19.8	11.6	2.9	50.7	937
	12-14	100.0	89.5	63.8	39.2	24.1	15.9	11.6	6.6	1.8	47.2	930
	15-17	100.0	88.9	64.7	39.8	21.8	16.1	12.2	5.0	1.1	48.6	937
	18-20	100.0	97.5	87.8	67.7	45.3	28.1	18.7	11.1	7.1	51.4	930
	21-23	100.0	99.2	95.1	91.7	62.7	44.3	25.4	13.9	4.5	58.2	940
TOTALS		100.0	96.4	85.3	68.9	51.7	37.4	24.6	13.8	3.8	53.8	7440

USAFETAC FORM 0-87-5 (OL A)

RELATIVE HUMIDITY

444 MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
NOV	00-02	100.0	99.7	95.4	97.8	77.7	51.1	26.9	13.6	4.1	60.8	970
	03-05	100.0	99.7	95.7	98.3	74.1	53.6	29.7	15.7	5.4	61.7	970
	06-08	100.0	99.6	95.3	96.9	72.8	53.0	30.1	14.3	5.2	61.3	970
	09-11	100.0	98.3	90.1	73.3	57.3	37.9	23.6	11.7	3.7	54.8	899
	12-14	100.0	95.7	79.6	53.7	39.2	26.4	16.8	7.3	2.1	47.5	898
	15-17	100.0	96.7	83.1	59.7	41.5	29.2	18.2	7.7	1.3	49.4	898
	18-20	100.0	99.8	94.9	81.7	62.5	39.9	22.5	11.5	2.9	56.9	897
	21-23	100.0	100.0	95.1	86.8	77.9	48.6	26.9	13.3	3.5	59.7	897
TOTALS		100.0	98.7	91.2	77.2	60.9	42.5	24.3	11.8	3.5	56.5	7189

USAFETAC FORM 0-87-5 (OL A)
JUL 64

RELATIVE HUMIDITY

STATION NAME

PERIOD

250
MON. 11

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.	
		10%	20%	30%	40%	50%	60%	70%	80%			90%
DEC	02-02	102.2	107.0	93.6	91.4	77.3	53.7	30.9	13.5	4.3	62.6	930
	03-05	100.2	100.0	98.1	91.1	77.6	57.5	37.4	12.7	4.5	52.6	930
	6-08	100.2	100.0	97.1	91.9	77.3	58.3	33.7	14.7	3.9	53.1	930
	09-11	100.0	99.7	95.9	87.6	66.7	46.5	29.9	12.4	3.4	59.7	930
	12-14	100.0	98.9	97.2	73.8	51.9	35.3	19.1	9.1	2.6	57.8	930
	15-17	100.0	98.9	93.2	77.8	57.4	37.3	27.6	10.9	2.6	55.4	930
	18-20	100.0	99.7	97.1	89.7	71.2	47.3	27.0	10.2	2.7	50.1	930
	21-23	100.0	100.0	98.4	93.3	75.5	57.4	31.1	11.7	2.7	61.5	930
TOTALS		100.0	99.7	96.3	96.6	69.4	48.3	27.6	11.7	3.3	59.9	7440

USAFETAC FORM 0-87.5 (OL A)
JUL 84

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

RELATIVE HUMIDITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

73-93

PERIOD

ALL
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	99.9	97.7	95.9	93.1	86.5	77.3	7.1	2.0	59.5	7439
FEB		100.0	99.2	95.9	87.8	71.2	47.6	24.7	8.9	1.9	59.2	6768
MAR		100.0	98.8	91.9	81.6	67.3	48.7	30.4	15.0	4.7	59.4	7438
APR		100.0	95.3	82.4	68.1	51.0	37.4	22.7	12.4	4.6	53.1	7198
MAY		100.0	97.5	85.1	70.8	55.6	41.8	28.6	15.1	5.7	55.7	7438
JUN		100.0	97.0	86.1	69.3	52.1	35.3	21.2	9.1	2.1	52.9	7198
JUL		100.0	93.8	78.9	61.9	43.0	28.4	14.6	5.2	1.1	48.5	7439
AUG		100.0	93.5	77.6	59.9	41.8	26.8	15.5	5.8	.5	47.8	7440
SEP		99.9	93.2	77.2	59.9	44.4	31.0	20.0	10.8	3.2	49.6	7198
OCT		100.0	96.4	85.3	68.9	51.7	37.4	24.6	13.8	3.8	53.8	7440
NOV		100.0	98.7	91.2	77.2	67.9	42.5	24.3	11.8	3.5	56.5	7189
DEC		100.0	99.7	96.3	86.6	69.4	48.3	27.6	11.7	3.3	59.9	7440
TOTALS		100.0	96.9	87.1	73.5	56.9	39.3	23.0	10.6	3.0	54.7	87625

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

727755 MALMSTROM AFB MT

73-83

STATION		STATION NAME												YEARS	
HRS	1ST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
12	MEAN	26.310	26.290	26.229	26.280	26.278	26.306	26.351	26.364	26.375	26.367	26.335	26.287	26.314	
	S D	.218	.216	.190	.174	.151	.124	.116	.118	.157	.175	.207	.212	.179	
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652	
15	MEAN	26.317	26.290	26.224	26.242	26.283	26.313	26.363	26.370	26.381	26.366	26.333	26.244	26.316	
	S D	.221	.217	.189	.176	.152	.127	.117	.122	.159	.177	.209	.215	.181	
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652	
18	MEAN	26.315	26.298	26.236	26.298	26.297	26.326	26.379	26.386	26.396	26.376	26.347	26.287	26.328	
	S D	.218	.211	.190	.180	.155	.127	.119	.124	.162	.179	.212	.215	.184	
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652	
11	MEAN	26.332	26.305	26.236	26.294	26.288	26.314	26.367	26.378	26.390	26.375	26.345	26.299	26.327	
	S D	.219	.213	.194	.180	.157	.127	.118	.123	.161	.181	.216	.217	.184	
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652	
14	MEAN	26.296	26.277	26.209	26.268	26.262	26.289	26.341	26.349	26.358	26.344	26.316	26.268	26.298	
	S D	.217	.211	.194	.177	.157	.126	.117	.124	.158	.179	.216	.214	.182	
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652	
17	MEAN	26.305	26.273	26.203	26.254	26.251	26.271	26.320	26.326	26.344	26.340	26.324	26.247	26.292	
	S D	.212	.207	.194	.175	.153	.124	.116	.123	.154	.175	.212	.216	.179	
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	299	310	3651	
20	MEAN	26.311	26.284	26.222	26.269	26.260	26.281	26.330	26.340	26.363	26.355	26.333	26.297	26.304	
	S D	.212	.207	.192	.170	.151	.122	.112	.120	.151	.174	.211	.218	.177	
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	299	310	3651	
23	MEAN	26.311	26.286	26.229	26.295	26.280	26.304	26.356	26.360	26.376	26.362	26.336	26.301	26.316	
	S D	.214	.205	.193	.170	.150	.124	.112	.119	.155	.174	.212	.210	.176	
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	299	310	3651	
ALL HOURS	MEAN	26.311	26.288	26.223	26.279	26.275	26.312	26.351	26.359	26.373	26.361	26.333	26.289	26.312	
	S D	.216	.208	.192	.176	.154	.126	.117	.123	.158	.177	.212	.212	.181	
	TOTAL OBS	2480	2256	2480	2400	2480	2400	2480	2480	2400	2480	2397	2480	29213	

USAF ETAC FORM 0-89-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

SEA LEVEL PRESSURE IN MBS FROM HOURLY OBSERVATIONS

727755 MALMSTROM AFB MT

73-83

STATION		STATION NAME												YEARS													
HRS - LST		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL	
02	MEAN	1018.51016.71013.31013.91012.61012.61013.41014.21015.61016.51017.21016.41015.1																									
	S D	9.749 9.316 8.365 7.544 6.232 5.327 4.841 4.876 6.711 7.512 9.213 9.604 7.862																									
	TOTAL OBS	310 282 310 300 310 300 310 310 300 310 300 310 310																									
05	MEAN	1018.71016.91013.31014.11013.01012.91014.11014.51016.01016.81017.51016.61015.4																									
	S D	9.845 9.414 8.316 7.534 6.251 5.324 4.794 4.915 6.805 7.498 9.300 9.759 7.897																									
	TOTAL OBS	310 282 310 300 310 300 310 310 300 310 300 310 310																									
08	MEAN	1019.31017.61014.11014.91013.41013.31014.61015.21016.91017.61018.11016.91016.0																									
	S D	9.771 9.454 8.279 7.561 6.236 5.197 4.839 4.947 6.848 7.567 9.396 9.758 7.912																									
	TOTAL OBS	310 282 310 300 300 300 310 310 300 310 300 310 310																									
11	MEAN	1019.61017.51013.71014.51013.01012.91014.11014.81016.31017.11017.81017.11015.7																									
	S D	9.738 9.526 8.454 7.544 6.290 5.191 4.856 4.951 6.773 7.581 9.499 9.811 7.985																									
	TOTAL OBS	310 282 310 300 310 300 310 310 300 310 300 310 310																									
14	MEAN	1018.01016.21012.51013.41012.01011.81013.11013.61015.01015.71016.51015.71014.4																									
	S D	9.581 9.472 8.495 7.460 6.388 5.210 4.758 5.028 6.648 7.508 9.515 9.675 7.896																									
	TOTAL OBS	310 282 310 300 310 300 310 310 300 310 300 310 310																									
17	MEAN	1018.61016.21012.41012.91011.71011.31012.41012.81014.61015.81017.11016.71014.4																									
	S D	9.408 9.266 8.483 7.372 6.268 5.132 4.747 4.981 6.578 7.382 9.416 9.518 7.921																									
	TOTAL OBS	310 282 310 300 310 300 310 310 300 310 299 310 310																									
20	MEAN	1019.11016.91013.51013.61012.71011.51012.61013.41015.41016.81017.81017.31015.0																									
	S D	9.473 9.358 8.350 7.303 6.231 5.119 4.617 4.898 6.531 7.373 9.420 9.585 7.932																									
	TOTAL OBS	310 282 310 300 310 300 310 310 300 310 299 310 310																									
23	MEAN	1018.81016.71013.51014.11012.71012.51013.71014.11015.81016.61017.51017.21015.3																									
	S D	9.529 9.357 8.479 7.333 6.254 5.213 4.683 4.907 6.663 7.474 9.409 9.672 7.860																									
	TOTAL OBS	310 282 310 300 310 300 310 310 300 310 299 310 310																									
ALL HOURS	MEAN	1018.81016.81013.31013.91012.51012.41013.51014.11015.71016.61017.51016.71015.1																									
	S D	9.635 9.386 8.408 7.469 6.287 5.251 4.816 4.986 6.721 7.491 9.395 9.672 7.924																									
	TOTAL OBS	2480 2256 2480 2400 2479 2400 2480 2480 2400 2480 2397 2480 2921																									

USAF ETAC FORM 0-89-3 (OL A)
OCT 75

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART F

PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

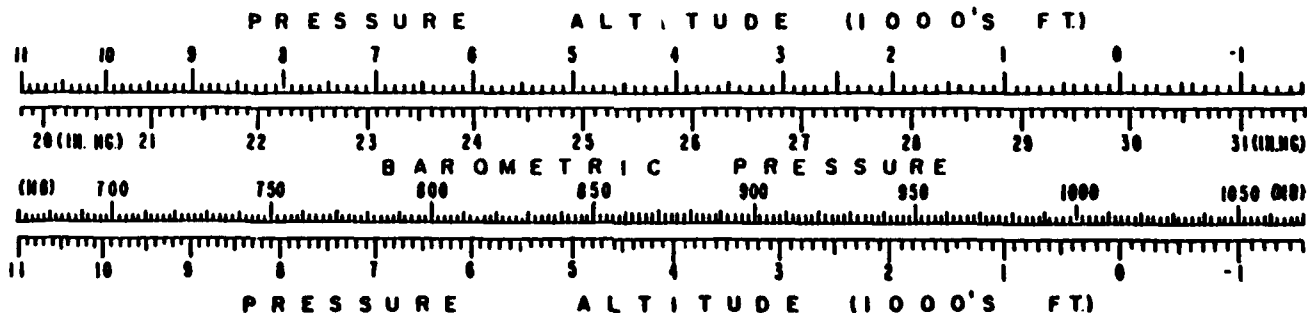
NOTES: Station pressure not reported for all services until late in 1945.

Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.

METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

1. Station pressure is presented in the table in inches of mercury.
2. Sea-level pressure is presented in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure-altitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.



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